

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13865	vod or video adj2 demand or payperview\$ or "pay per view" or payer adj view? or ondemand or on adj demand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 12:06
L2	136838	mso or (network or multiple or multitude or plurality or several or more adj2 one or group or collection or assembly) near3 (provider or distributor or operator or satellite or system near2 (distribution or distributing or providing or operation))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 12:09
L3	786	1 same 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 12:09
L4	568	3 and @ad<"20030101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 12:15
L5	598831	"closed loop" or feedback or (feed or feeds or fed or feeding) adj back	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 12:11
L6	98	4 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 12:12

US 20040205829 A1 US-PGPUB  
US 20030217362 A1 US-PGPUB  
US 20030088873 A1 US-PGPUB  
US 20020144269 A1 US-PGPUB  
US 20020138839 A1 US-PGPUB  
US 6904610 B1 USPAT  
US 6564381 B1 USPAT  
US 6530082 B1 USPAT  
US 6526575 B1 USPAT  
US 5872588 A USPAT  
US 5742677 A USPAT  
US 5673430 A USPAT  
US 5572442 A USPAT  
US 5557541 A USPAT  
US 5329590 A USPAT  
US 5303295 A USPAT

Set	Items	Description
S1	3200	VOD OR VIDEO(2W)DEMAND OR PAYPERVIEW? OR PAY()PER()VIEW? OR PAYPER()VIEW?
S2	57356	MSO OR (NETWORK? OR MULTIP? OR MULTIT? OR PLURAL? OR SEVERAL? OR MORE(2W)ONE OR GROUP? OR COLLECTION? OR ASSEMBL?) (3N) (- PROVIDER? OR DISTRIB? OR OPERATOR? OR SATELLITE? OR SYSTEM?-(2N) (DISTRIB? OR PROVID? OR OPERAT?))
S3	418301	MULTIMEDIA? OR MULTI()MEDIA? OR AUDIOVISUAL? OR AUDIO()VISUAL? OR MOVIE? OR TV OR TELEVISION? OR TVBROADCAST? OR MULTICAST? OR VIDEOGAME? OR VIDEO()GAME?
S4	25402	INTERACTIV? OR INTER()ACTIV?
S5	154644	CLOSE?()LOOP? OR CLOSEDLOOP? OR CLOSELOOP? OR FEEDBACK? OR FEED?()BACK?
S6	300	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (UPLINK? OR UPLOAD? OR UP() (LOAD? OR LINK?))
S7	32035	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (USAGE? OR METADATA? OR META()DATA? OR PRICING? OR PRICE? OR HABIT? ? OR CHARACTERISTIC?)
S8	7060	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (BILLING? OR STOR?()ALLOCAT? OR SCHEDUL? OR SUBSCRI? - OR DATAFILE? OR DATA()FILE? OR FTP OR FILE()TRANSFER()PROTOCOL?)
S9	59994	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (DELIVER? OR TRANSMI? OR DOWNLOAD? OR DOWNLINK? OR DOWN() (LINK? OR LOAD?) OR URL OR ASSET?)
S10	25317	(CREAT? OR PRODUC? OR COMPIL? OR GENERAT?) (5N) (REPORT? OR - SUMMAR? OR RECAP? OR DATABASE? OR DATA()BASE? OR DATAFILE? OR DATA()FILE?)
S11	2238435	IC=(G06F? OR H04N? OR H04L?)
S12	10433	MC=(T01-N01D1B OR T01-N01D3 OR W02-F10A1)
S13	1356622	MC=(T01? OR W02?)
S14	3681	(S1 OR S3) AND S2
S15	214	S14 AND S1
S16	336	S14 AND S4:S5
S17	488	S15:S16
S18	29	S17 AND S6:S10
S19	474	S17 AND S11:S13
S20	29	S18 AND S19
S21	123	S14 AND S6:S10
S22	117	S21 AND S11:S13
S23	123	S20:S22
S24	648372	PR=2003:2005
S25	106	S23 NOT S24
S26	106	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200536

(c) 2005 Thomson Derwent

?

Set	Items	Description
S1	3200	VOD OR VIDEO(2W)DEMAND OR PAYPERVIEW? OR PAY()PER()VIEW? OR PAYPER()VIEW?
S2	57356	MSO OR (NETWORK? OR MULTIP? OR MULTIT? OR PLURAL? OR SEVERAL? OR MORE(2W)ONE OR GROUP? OR COLLECTION? OR ASSEMBL?) (3N) (- PROVIDER? OR DISTRIBUT? OR OPERATOR? OR SATELLITE? OR SYSTEM?-(2N) (DISTRIB? OR PROVID? OR OPERAT?))
S3	418301	MULTIMEDIA? OR MULTI()MEDIA? OR AUDIOVISUAL? OR AUDIO()VISUAL? OR MOVIE? OR TV OR TELEVISION? OR TVBROADCAST? OR MULTICAST? OR VIDEOGAME? OR VIDEO()GAME?
S4	25402	INTERACTIV? OR INTER()ACTIV?
S5	154644	CLOSE?()LOOP? OR CLOSEDLOOP? OR CLOSELOOP? OR FEEDBACK? OR FEED?()BACK?
S6	300	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (UPLINK? OR UPLOAD? OR UP() (LOAD? OR LINK?))
S7	32035	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (USAGE? OR METADATA? OR META()DATA? OR PRICING? OR PRICE? OR HABIT? ? OR CHARACTERISTIC?)
S8	7060	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (BILLING? OR STOR?()ALLOCAT? OR SCHEDUL? OR SUBSCRI? - OR DATAFILE? OR DATA()FILE? OR FTP OR FILE()TRANSFER()PROTOCOL?)
S9	59994	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (DELIVER? OR TRANSMI? OR DOWNLOAD? OR DOWNLINK? OR DOWN() (LINK? OR LOAD?) OR URL OR ASSET?)
S10	25317	(CREAT? OR PRODUC? OR COMPIL? OR GENERAT?) (5N) (REPORT? OR - SUMMAR? OR RECAP? OR DATABASE? OR DATA()BASE? OR DATAFILE? OR DATA()FILE?)
S11	2238435	IC=(G06F? OR H04N? OR H04L?)
S12	10433	MC=(T01-N01D1B OR T01-N01D3 OR W02-F10A1)
S13	1356622	MC=(T01? OR W02?)
S14	3681	(S1 OR S3) AND S2
S15	214	S14 AND S1
S16	336	S14 AND S4:S5
S17	488	S15:S16
S18	29	S17 AND S6:S10
S19	474	S17 AND S11:S13
S20	29	S18 AND S19
S21	123	S14 AND S6:S10
S22	117	S21 AND S11:S13
S23	123	S20:S22
S24	648372	PR=2003:2005
S25	106	S23 NOT S24
S26	106	IDPAT (sorted in duplicate/non-duplicate order)
S27	2	<del>S15 AND S5</del>
S28	2	S27 NOT S23

SUPPLEMENTAL

STRATEGY

26/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011000991 \*\*Image available\*\*  
WPI Acc No: 1996-497940/199649  
XRPX Acc No: N96-419877

**Data management and distribution system for electronic television  
program guide - Creates customized electronic program guides using  
information collected from multiple sources in various formats and  
inserted in centralised database**

Patent Assignee: TV GUIDE ON SCREEN (TVGU-N); UNITED VIDEO PROPERTIES INC  
(UNVI-N); NEWS AMERICA PUBLICATIONS INC (NEWS-N); TELECOM COLORADO INC  
(TELE-N)

Inventor: DARATA P; GUSTAFSON D W; TENNEY D; THOMAS W

Number of Countries: 026 Number of Patents: 016

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9634486	A1	19961031	WO 96US5905	A	19960426	199649	B
AU 9656313	A	19961118	AU 9656313	A	19960426	199710	
US 5666645	A	19970909	US 95430327	A	19950426	199742	
EP 823176	A1	19980211	EP 96913235	A	19960426	199811	
			WO 96US5905	A	19960426		
BR 9604997	A	19990202	BR 964997	A	19960426	199911	
			WO 96US5905	A	19960426		
AU 703839	B	19990401	AU 9656313	A	19960426	199925	
KR 99008171	A	19990125	WO 96US5905	A	19960426	200014	
			KR 97707696	A	19971025		
JP 2001502124	W	20010213	JP 96532776	A	19960426	200112	
			WO 96US5905	A	19960426		
CA 2219021	C	20020212	CA 2219021	A	19960426	200221	
			WO 96US5905	A	19960426		
EP 823176	B1	20030618	EP 96913235	A	19960426	200341	
			WO 96US5905	A	19960426		
DE 6920628746	E	20030724	DE 96628746	A	19960426	200356	
			EP 96913235	A	19960426		
			WO 96US5905	A	19960426		
EP 1341366	A2	20030903	EP 96913235	A	19960426	200365	
			EP 200376523	A	19960426		
JP 3507506	B2	20040315	JP 96532776	A	19960426	200419	
			WO 96US5905	A	19960426		
ES 2202440	T3	20040401	EP 96913235	A	19960426	200425	
JP 2004166220	A	20040610	JP 96532776	A	19960426	200438	
			JP 2003196822	A	20030714		
JP 2004152310	A	20040527	JP 2003196822	A	19960426	200441	
			JP 2003377480	A	20031106		

Priority Applications (No Type Date): US 95430327 A 19950426

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9634486	A1	E	33	H04N-001/00	
				Designated States (National): AU BR CA CN JP KR PL	
				Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE	
AU 9656313	A			H04N-001/00	Based on patent WO 9634486
US 5666645	A		18	H04H-001/02	
EP 823176	A1	E		H04N-001/00	Based on patent WO 9634486
				Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE	
BR 9604997	A			H04N-001/00	Based on patent WO 9634486
AU 703839	B			H04N-001/00	Previous Publ. patent AU 9656313 Based on patent WO 9634486

KR 99008171 A H04N-007/16 Based on patent WO 9634486  
 JP 2001502124 W 40 H04N-005/445 Based on patent WO 9634486  
 CA 2219021 C E H04N-007/16 Based on patent WO 9634486  
 EP 823176 B1 E H04N-001/00 Based on patent WO 9634486  
 Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU  
 MC NL PT SE  
 DE 6920628746 E H04N-001/00 Based on patent EP 823176  
 Based on patent WO 9634486  
 EP 1341366 A2 E H04N-001/00 Div ex application EP 96913235  
 Div ex patent EP 823176  
 Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU  
 MC NL PT SE  
 JP 3507506 B2 20 H04N-005/445 Previous Publ. patent JP 200102124  
 Based on patent WO 9634486  
 ES 2202440 T3 H04N-001/00 Based on patent EP 823176  
 JP 2004166220 A 20 H04N-007/025 Div ex application JP 96532776  
 JP 2004152310 A 18 G06F-013/00 Div ex application JP 2003196822  
**Data management and distribution system for electronic television  
 program guide...**

...Abstract (Equivalent): A process for the management and distribution of  
 data for an electronic **television** program schedule guide wherein  
 program schedule information is **distributed** to a **plurality** of  
 target devices, said process comprising...

...receiving **television** program schedule data from one or more sources  
 and using said received data to update a database of **television**  
 program schedule data...

...extracting a portion of said validated data in said **database** and  
**generating** a data set in accordance with configuration data for one or  
 more of said target...

...Title Terms: **TELEVISION** ;

International Patent Class (Main): **G06F-013/00** ...

... **H04N-001/00** ...

... **H04N-005/445** ...

... **H04N-007/025** ...

... **H04N-007/16**

...International Patent Class (Additional): **H04N-005/38** ...

... **H04N-007/03** ...

... **H04N-007/035** ...

... **H04N-007/10** ...

... **H04N-007/173**

Manual Codes (EPI/S-X): **W02-F03A5** ...

... **W02-F05A3C** ...

... **W02-F05B9**

26/3,K/10 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

016230915 \*\*Image available\*\*  
WPI Acc No: 2004-388804/200436  
XRPX Acc No: N04-309541

**Comprehensive video license distribution system for movie streaming,  
has preferred demand allocation unit to plan license distribution to  
predictable group of subscribers based on analysis of subscriber  
video viewing patterns**

Patent Assignee: GOPALAN S (GOPA-I); RAO K K (RAOK-I); SRIDHAR V (SRID-I);  
SRIPATHY K (SRIP-I)

Inventor: GOPALAN S; RAO K K; SRIDHAR V; SRIPATHY K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040088730	A1	20040506	US 2002285511	A	20021101	200436 B

Priority Applications (No Type Date): US 2002285511 A 20021101

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

US 20040088730	A1	94	H04N-007/173	
----------------	----	----	--------------	--

**Comprehensive video license distribution system for movie streaming,  
has preferred demand allocation unit to plan license distribution to  
predictable group of subscribers based on analysis of subscriber  
video viewing patterns**

Abstract (Basic):

... The system has a preferred demand allocation unit to plan video  
license **distribution** to a predictable **group** of **subscribers** based  
on an **analysis** of **subscriber** video viewing patterns. Local  
subscriber manager (102) trades favor points and exception subscribers  
are handled...

...preview unit manages timing and selection of subscriber specific  
previews. A complaint unit performs detailed **analysis** of **subscriber**  
complaints.

... Used for processing real-time demands from users for a **movie**  
and for streaming the requested **movie** .

...Title Terms: **MOVIE** ;

International Patent Class (Main): **H04N-007/173**

International Patent Class (Additional): **G06F-003/00** ...

... **G06F-013/00** ...

... **H04N-005/445** ...

... **H04N-007/16** ...

... **H04N-007/18** ...

... **H04N-009/47**

Manual Codes (EPI/S-X): **T01-J10D** ...

... **W02-F10A** ...

... **W02-F10N7**

26/3,K/18 (Item 18 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

015625920 \*\*Image available\*\*  
WPI Acc No: 2003-688091/200365  
XRPX Acc No: N03-549684

**Electronic program guide interactive features access method for TV broadcast applications, involves analyzing promotional meta data to determine valid EPG features, and displaying options corresponding to EPG features**

Patent Assignee: TVGATEWAY LLC (TVGA-N); BOYARSKI J I (BOYA-I); PALAZZO F D (PALA-I); PLOTNICK B (PLOT-I)

Inventor: BOYARSKI J I; PALAZZO F D; PLOTNICK B

Number of Countries: 101 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030115601	A1	20030619	US 200122649	A	20011217	200365 B
WO 200352573	A2	20030626	WO 2002US40171	A	20021212	200365
AU 2002361705	A1	20030630	AU 2002361705	A	20021212	200420
EP 1456735	A2	20040915	EP 2002797343	A	20021212	200460
			WO 2002US40171	A	20021212	

Priority Applications (No Type Date): US 200122649 A 20011217

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

US 20030115601	A1		12	G06F-003/00	
----------------	----	--	----	-------------	--

WO 200352573	A2 E			G06F-003/00	
--------------	------	--	--	-------------	--

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2002361705	A1			G06F-003/00	Based on patent WO 200352573
---------------	----	--	--	-------------	------------------------------

EP 1456735	A2 E			G06F-003/00	Based on patent WO 200352573
------------	------	--	--	-------------	------------------------------

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

**Electronic program guide interactive features access method for TV broadcast applications, involves analyzing promotional meta data to determine valid EPG features, and displaying options corresponding to EPG features**

Abstract (Basic):

... broadcast advertisement comprising audio, video and promotional meta data (124) are received over a broadcast **distribution network** (104). The promotional **meta data** is **analyzed** to determine valid electronic program guide (EPG) features. The options corresponding to EPG features are...

... 1) computer readable media comprising EPG **interactive** feature access program; and...

...2) EPG **interactive** features access system...

...For accessing **interactive** features of electronic program guide (EPG) for **television** broadcasting applications...

...broadcast **distribution network** (104...



...Title Terms: **TELEVISION** ;  
International Patent Class (Main): **G06F-003/00**  
International Patent Class (Additional): **G06F-013/00** ...

... **G06F-013/000** ...

... **H04N-005/445**  
Manual Codes (EPI/S-X): **W02-F10E5** ...

26/3,K/22 (Item 22 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

015441461 \*\*Image available\*\*

WPI Acc No: 2003-503603/200347

XRPX Acc No: N03-399789

Multi - media content delivery management method for real time distribution in a communication network , involves altering quality of data being transmitted based on attention provided by user

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG )

Inventor: COHEN-SOLAL E

Number of Countries: 034 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030052911	A1	20030320	US 2001956660	A	20010920	200347 B
WO 200326250	A1	20030327	WO 2002IB3795	A	20020916	200347
EP 1430692	A1	20040623	EP 2002798792	A	20020916	200441
			WO 2002IB3795	A	20020916	
KR 2004041168	A	20040514	KR 2004704027	A	20040319	200460
JP 2005503726	W	20050203	WO 2002IB3795	A	20020916	200516
			JP 2003529731	A	20020916	
CN 1557083	A	20041222	CN 2002818428	A	20020916	200522

Priority Applications (No Type Date): US 2001956660 A 20010920

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

US 20030052911	A1		8	G09G-005/00	
----------------	----	--	---	-------------	--

WO 200326250	A1	E		H04L-029/06	
--------------	----	---	--	-------------	--

Designated States (National): CN JP KR

Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

EP 1430692	A1	E		H04L-029/06	Based on patent WO 200326250
------------	----	---	--	-------------	------------------------------

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

KR 2004041168	A			G06F-017/00	
---------------	---	--	--	-------------	--

JP 2005503726	W		28	H04N-007/173	Based on patent WO 200326250
---------------	---	--	----	--------------	------------------------------

CN 1557083	A			H04L-029/06	
------------	---	--	--	-------------	--

Multi - media content delivery management method for real time distribution in a communication network , involves altering quality of data being transmitted based on attention provided by user

Abstract (Basic):

... The method involves transmitting a stream of **multi - media** content from server (30) to user output device (24) via communication network (10). The degree of attention directed by user (50) on **transmitted** content is continuously **monitored** by detecting his/her facial expressions. Accordingly, quality level of **multi - media** content being transmitted is adjusted at server side to lower the transmission rate.

... An INDEPENDENT CLAIM is also included for a system transmitting **multi - media** content in real-time...

...Used for real time distribution of **multi - media** content via a communication network or cable **television** system...

...Altering the quality level of the **multi - media** being transmitted reduces the rate of data delivery of the **multi - media** content in a network thereby increasing the available bandwidth for transmitting

more data...

...The drawing shows a system for distributing multi - media content in real-time...

International Patent Class (Main): G06F-017/00 ...

... H04L-029/06 ...

... H04N-007/173

...International Patent Class (Additional): H04L-012/56

...Manual Codes (EPI/S-X): T01-N01D1 ...

... T01-N02B2A ...

... W02-F03A ...

... W02-F04 ...

... W02-F10H

26/3,K/27 (Item 27 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

015148568 \*\*Image available\*\*  
WPI Acc No: 2003-209095/200320  
XRPX Acc No: N03-166648

Television usage and navigational data identification and processing  
system in satellite -based television network , records scene viewed  
by user, time and duration of viewing to create navigational log record  
Patent Assignee: HUGHES ELECTRONICS CORP (HUGA ); SOLOFF S (SOLO-I)

Inventor: SOLOFF S

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020152460	A1	20021017	US 2001268481	P	20010212	200320 B
			US 2001851689	A	20010508	
BR 200201221	A	20021112	BR 20021221	A	20020208	200320

Priority Applications (No Type Date): US 2001268481 P 20010212; US  
2001851689 A 20010508

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020152460	A1		9 H04N-007/16	Provisional application US 2001268481
BR 200201221	A		H04N-007/173	

Television usage and navigational data identification and processing  
system in satellite -based television network , records scene viewed  
by user, time and duration of viewing to create navigational log record

Abstract (Basic):

... 1) Method for identifying and processing satellite based  
television usage and navigational data...

...2) Satellite -based communication network ; and...

...3) Satellite-based television usage characteristics tracking  
program...

...For identifying and processing satellite-based television usage and  
navigational data in satellite -based interactive television  
network .

...

...The providers of scene information collect and analyze the  
navigational information to obtain usage profiles in order to promote  
marketing of their products and services

Title Terms: TELEVISION ;

International Patent Class (Main): H04N-007/16 ...

... H04N-007/173

...International Patent Class (Additional): H04N-007/20

Manual Codes (EPI/S-X): T01-J08F ...

... T01-S03 ...

... W02-D05C ...

... W02-D08 ...

... W02-F04B ...

... W02-F06A

26/3,K/28 (Item 28 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

015116206 \*\*Image available\*\*  
WPI Acc No: 2003-176729/200318  
XRPX Acc No: N03-138948

**Arrangement for billing for telecommunications charges, especially for  
multimedia message transmission, has device for transmitting charge data  
record from charge detection to billing device**

Patent Assignee: SIEMENS AG (SIEI )

Inventor: WUSCHKE M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10117054	A1	20021010	DE 1017054	A	20010405	200318 B

Priority Applications (No Type Date): DE 1017054 A 20010405

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 10117054	A1	4	G07F-019/00	

**Arrangement for billing for telecommunications charges, especially for  
multimedia message transmission, has device for transmitting charge data  
record from charge detection to billing device**

Abstract (Basic):

... AN INDEPENDENT CLAIM is also included for the **following** : a  
method of **billing** for telecommunications charges, especially for  
**multimedia** message transmission...

...For billing for telecommunications charges, especially for **multimedia**  
message transmission...

...Charge data records can be transmitted to a billing center of a **network**  
**operator** .

26/3,K/33 (Item 33 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

014805709 \*\*Image available\*\*  
WPI Acc No: 2002-626415/200267  
XRPX Acc No: N02-495358

Video on- demand system using Internet, uses computer server that creates temporary video data files by accessing video data files from storage units, for downloading and storing temporary files into customer terminal

Patent Assignee: NOMURA T (NOMU-I); SUN T (SUNT-I)

Inventor: NOMURA T; SUN T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020078176	A1	20020620	US 2000738425	A	20001215	200267 B

Priority Applications (No Type Date): US 2000738425 A 20001215

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

US 20020078176	A1		9 G06F-015/16	
----------------	----	--	---------------	--

Video on- demand system using Internet, uses computer server that creates temporary video data files by accessing video data files from storage units, for downloading and storing temporary files into...

Abstract (Basic):

... A generation video data storage unit (103) using Winchester disk drive technology stores original video data files. A generation video data storage unit (105) stores the video data files sorted by category and classified in indexed master files. A remotely accessible computer server (113) accesses the stored video data files and creates the temporary video data files which is downloaded and stored into the customer terminal through Internet.

... Video on- demand system for providing movies, video programs and other prerecorded materials and other forms of electronic entertainment materials such as video games, music videos and video books and electronic data to remote user using LAN, WAN, satellite television network, cellular telephone network, pager, wireless personal digital assistant (PDA) system connection, PBX network, peer-to...

...for distribution of video messages or video mail. For providing publicly accessible video libraries with video on- demand capabilities...

...The downloading of video data files to the customer is continuously monitored by error detection and correction software based on which downloading is stopped or started over...

...The figure shows a block diagram of video on- demand system

Technology Focus:

... NTSC, PAL and/or HDTV versions of the video data files can be created and stored in separate data storage units as appropriate for the markets to be served...

International Patent Class (Main): G06F-015/16

Manual Codes (EPI/S-X): T01-N01A2B ...

... T01-N01D1B ...

... T01-N02A3C ...

... W02-F10A1 ...

... W02-F10H



26/3,K/34 (Item 34 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

014786847 \*\*Image available\*\*  
WPI Acc No: 2002-607553/200265  
XRPX Acc No: N02-481134

**Resource management system for broadband, satellite -based communication network , compares resource request from satellite terminals and utilized resource information received from satellite**  
Patent Assignee: HUGHES ELECTRONICS CORP (HUGA ); GOPAL R (GOPA-I); NETI M (NETI-I)

Inventor: GOPAL R; NETI M  
Number of Countries: 028 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020078194	A1	20020620	US 2000741120	A	20001220	200265 B
EP 1217762	A2	20020626	EP 2001310012	A	20011129	200265
CA 2364404	A1	20020620	CA 2364404	A	20011205	200265

Priority Applications (No Type Date): US 2000741120 A 20001220

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

US 20020078194	A1	14	G06F-015/173	
----------------	----	----	--------------	--

EP 1217762	A2 E		H04B-007/185	
------------	------	--	--------------	--

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

CA 2364404	A1 E		H04L-012/16	
------------	------	--	-------------	--

**Resource management system for broadband, satellite -based communication network , compares resource request from satellite terminals and utilized resource information received from satellite**

Abstract (Basic):

... For monitoring utilization of resources is broadband,  
**multimedia satellite -based communication network .**  
...

...The resource utilization history can be extrapolated to **analyze** the  
resource **usage** pattern of every subscriber based on which customer  
retention programs can be devised and new

International Patent Class (Main): **G06F-015/173** ...

... **H04L-012/16**

International Patent Class (Additional): **H04L-029/02** ...

Manual Codes (EPI/S-X): **T01-N01A** ...

... **T01-N02B2** ...

... **W02-C03B1A** ...

... **W02-D05C5**

26/3,K/36 (Item 36 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

014613768 \*\*Image available\*\*  
WPI Acc No: 2002-434472/200246  
XRPX Acc No: N02-341982

Network based distributed multimedia sampling system includes  
multimedia sampling computer which downloads and executes multimedia  
files from multimedia warehouse, in synchronization with project file

Patent Assignee: REELSCORE LLC (REEL-N)  
Inventor: JONES J R; KREMENS J A  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020042834	A1	20020411	US 2000238938	P	20001010	200246 B
			US 2001973892	A	20011010	

Priority Applications (No Type Date): US 2000238938 P 20001010; US  
2001973892 A 20011010

Patent Details:.

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020042834	A1	9	G06F-015/16	Provisional application US 2000238938

Network based distributed multimedia sampling system includes  
multimedia sampling computer which downloads and executes multimedia  
files from multimedia warehouse, in synchronization with project file

Abstract (Basic):

... A multimedia warehouse receives and archives multimedia  
files which are uploaded from multiple distributed multimedia  
source computers. A multimedia sampling computer downloads the  
multimedia files from the warehouse and executes the downloaded  
multimedia files in synchronization with a project file.

... a) Network based multimedia sampling method; and...

...b) Computer readable storage medium storing multimedia sampling  
program...

...For sampling distributed multimedia using network .

...Permits selection of music and video from a searchable database . By  
connecting producers of content with video and music vendors through  
single project oriented, collaborative interface, audio-video

International Patent Class (Main): G06F-015/16

Manual Codes (EPI/S-X): T01-N01D1 ...

... T01-N03A1B ...

... T01-S03

26/3,K/43 (Item 43 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

014384860 \*\*Image available\*\*  
WPI Acc No: 2002-205563/200226  
XRPX Acc No: N02-156536

**Conditional access and security for video on- demand systems using  
circuitry in a target device to provide encryption of transmission,  
transmission of access keys and access control**

Patent Assignee: DIVA SYSTEMS CORP (DIVA-N)  
Inventor: BERTRAM M C  
Number of Countries: 094 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200152543	A1	20010719	WO 2001US1173	A	20010112	200226 B
AU 200132794	A	20010724	AU 200132794	A	20010112	200226
EP 1247399	A1	20021009	EP 2001904852	A	20010112	200267
			WO 2001US1173	A	20010112	

Priority Applications (No Type Date): US 2000483066 A 20000114  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200152543	A1	E	37 H04N-007/167	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200132794 A H04N-007/167 Based on patent WO 200152543

EP 1247399 A1 E H04N-007/167 Based on patent WO 200152543

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

**Conditional access and security for video on- demand systems using  
circuitry in a target device to provide encryption of transmission,  
transmission of access...**

Abstract (Basic):

... A combination system (400) preferably comprises broadcast  
sources (102) and **video on- demand ( VOD )** systems (402) to **monitor**  
content as requested by **subscriber** stations (108) in addition to the  
broadcast sources in order to provide video and audio...

... AN INDEPENDENT CLAIM is included for a **video on- demand**  
system for providing conditional access to video services...

...Providing conditional access and security for **VOD distribution**  
**networks** .

... **VOD** system (402)

International Patent Class (Main): **H04N-007/167**

International Patent Class (Additional): **H04N-007/173**

Manual Codes (EPI/S-X): **W02-F10A1** ...

... **W02-F10N**

RELATED  
DOC.  
BEN SMITH

NO  
U.S.  
EQUIVALENT

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
19 July 2001 (19.07.2001)

PCT

(10) International Publication Number  
**WO 01/52543 A1**

(51) International Patent Classification<sup>7</sup>: H04N 7/167

(21) International Application Number: PCT/US01/01173

(22) International Filing Date: 12 January 2001 (12.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
09/483,066 14 January 2000 (14.01.2000) US

(71) Applicant: **DIVA SYSTEMS CORPORATION**  
[US/US]; 800 Saginaw Drive, Redwood City, CA 94063 (US).

(72) Inventor: **BERTRAM, Michael, C.**; 417-17 Camille Circle, San Jose, CA 95134 (US).

(74) Agents: **SUEOKA, Greg, T. et al.**; Fenwick & West LLP, Two Palo Alto Square, Palo Alto, CA 94306 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

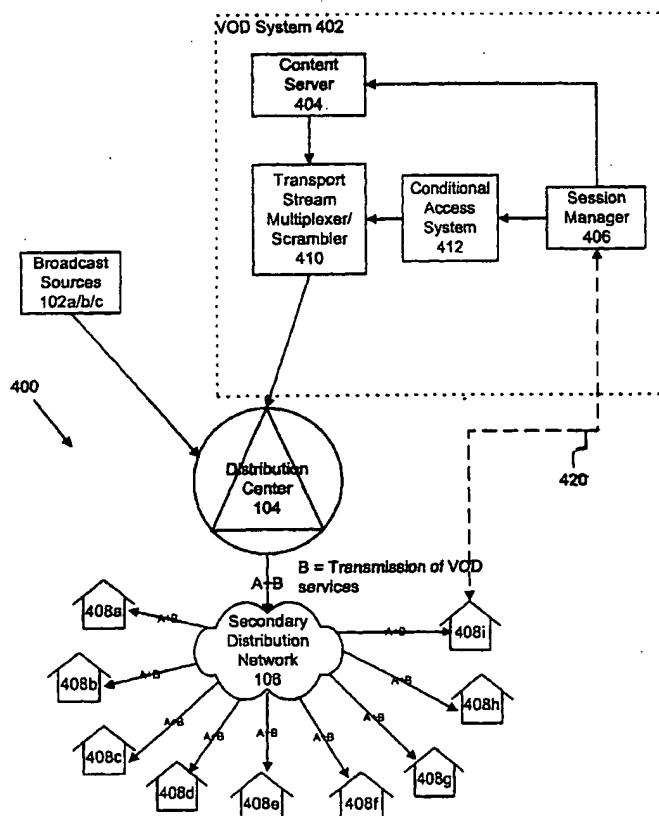
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: **CONDITIONAL ACCESS AND SECURITY FOR VIDEO ON-DEMAND SYSTEMS**



(57) Abstract: A system that provides secure transmission and complete access control for target devices. Such a system includes a distribution center, a video-on-demand system, a transmission network and a plurality of target devices. The video-on-demand system advantageously provides for encryption of the transmission, transmission of access keys, and access control. The target devices also include circuitry for communicating with the video server and decrypting the transmission and controlling access to video services. A method for providing conditional access to video services for a plurality of subscriber stations comprises the steps of: authorizing the plurality of subscriber stations to receive the video services; receiving a first order for a first video service from a first subscriber station; and transmitting tuning data to the first subscriber station so that the first subscriber station is able to receive the first video service. The method may also prevent the theft of the content of transmissions by performing the steps of: scrambling the first video service using a first key to generate a first scrambled video service; scrambling the first key using decryption data to generate a first scrambled key; distributing the decryption data to decrypt the first scrambled key to the plurality of subscriber stations; transmitting the first scrambled video service to the plurality of subscriber stations; and transmitting the first scrambled key to the plurality of subscriber stations.

26/3,K/48 (Item 48 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

014203421 \*\*Image available\*\*  
WPI Acc No: 2002-024118/200203

**Method for distributing multimedia using communication network**

Patent Assignee: KIM K M (KIMK-I)

Inventor: KIM K M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001067959	A	20010713	KR 200119059	A	20010410	200203 B

Priority Applications (No Type Date): KR 200119059 A 20010410

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001067959	A	1	G06F-017/00	

**Method for distributing multimedia using communication network**

Abstract (Basic):

... The method for distributing the **multimedia** using the communication network is provided to make a DB from the number of the **multimedia** opened by sending a media open-code to a remote server computer, to create and distribute the **multimedia** via the communication network, and to offer the recorded media, which can read the program...

... The **multimedia** (10) includes a moving picture ad(20) and music media(30) as the object. The...

...picture ad means the ad file of the different format and things included in the **multimedia** as the object, which is produced by a moving picture application of the vector drawing...

...that the music file(wav, mp3 file) of the different format is included in the **multimedia** as the object according to the shockwave technology. When the **multimedia** is opened by the specified **multimedia** regenerator, the media open code is created. The **multimedia** includes an open code creation module(90), which the distributor sends the media open code...

...the DB(60) while the server computer counts the number of the media open code **transmission**, **calculates** the number of the same **multimedia** regeneration, and writes the result to the DB. The provider gathers the ad cost from an advertiser asking the publication of the moving picture ad, which is inserted into the **multimedia**, based on the number of the **multimedia** regeneration, and compensates the copyright fee about the music media inserted into the **multimedia**.

International Patent Class (Main): G06F-017/00

Manual Codes (EPI/S-X): T01-J

26/3,K/54 (Item 54 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

013882733 \*\*Image available\*\*  
WPI Acc No: 2001-366945/200138  
XRPX Acc No: N01-267742

**Sporting event content** distributing system using global communication network , generates **scripting data file** based on output of **telemetry sensor positioned on object of interest in sporting event**

Patent Assignee: ANIVISION INC (ANIV-N)  
Inventor: BOYKEN J D; HOUSE S D; MITCHELL B K; WELLS R V  
Number of Countries: 024 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200067867	A2	20001116	WO 2000US12438	A	20000505	200138 B
AU 200049909	A	20001121	AU 200049909	A	20000505	200138

Priority Applications (No Type Date): US 99133068 P 19990507

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200067867	A2	E 38	A63F-013/12	
Designated States (National): AU BR CA CN JP MX				
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE				
AU 200049909	A		A63F-013/12	Based on patent WO 200067867

**Sporting event content** distributing system using global communication network , generates **scripting data file** based on output of **telemetry sensor positioned on object of interest in sporting event**

Abstract (Basic):

... of telemetry sensor that is positioned on an object of interest in sporting event, for **generating scripting data file** . The client computer (18) in communication with the telemetry server, regenerates simulated rendition of sporting event based on **generated scripting data file** .

... connected to telemetry server is operated by local operator to enhance position accuracy of scripting **data file generated** in server. The client computer connected to the server, is also connected to other client computers for **interactive** competitive racing against other remote users. INDEPENDENT CLAIMS are also included for the following...

...sporting event content such as car racing content, over global communication network such as Internet, **interactive TV** , for enabling live interaction of remote computer users with live racing event. Dog, horse, sail...

Manual Codes (EPI/S-X): **T01-H07C5E** ...

... **T01-H07C5S** ...

... **T01-J15H** ...

... **T01-P02A** ...

... **W02-F10G**

26/3,K/65 (Item 65 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

012612425 \*\*Image available\*\*  
WPI Acc No: 1999-418529/199935  
XRPX Acc No: N99-312425

**Near- video -on- demand master scheduler**  
Patent Assignee: GTE LAB INC (SYLV )  
Inventor: CHIPALKATTI R; FRANSMAN A  
Number of Countries: 021 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9929108	A1	19990610	WO 98US25777	A	19981204	199935 B
EP 1055327	A1	20001129	EP 98963787	A	19981204	200063
			WO 98US25777	A	19981204	
JP 2003501846	W	20030114	WO 98US25777	A	19981204	200306
			JP 2000523805	A	19981204	

Priority Applications (No Type Date): US 98204523 A 19981203; US 9767452 P 19971204; US 9770106 P 19971231

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9929108	A1	E	96 H04N-007/10	
Designated States (National): CA JP				
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE				
EP 1055327	A1	E	H04N-007/10	Based on patent WO 9929108
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				
JP 2003501846	W		101 H04N-007/173	Based on patent WO 9929108

**Near- video -on- demand master scheduler**

Abstract (Basic):

... Scheduler has a schedule management system, a content manager system **monitoring** and controlling the loading of **assets** (video content for staggered transmission to subscribers) into the server according to the validated schedule...  
... Scheduler is for providing near **video** on **demand** over a **distribution network** .  
...

... **Scheduler** **tracks** head-end configuration, performs **schedule** revision, management and distribution and performs asset and content management

International Patent Class (Main): **H04N-007/10** ...

... **H04N-007/173**

International Patent Class (Additional): **H04N-007/14**

Manual Codes (EPI/S-X): **W02-F10A**

26/3,K/66 (Item 66 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

012327927 \*\*Image available\*\*  
WPI Acc No: 1999-134034/199912  
XRPX Acc No: N99-097745

**Digital coupon system for pay TV - monitors user terminal usage  
pattern to determine whether coupon information preconditions have been  
satisfied**

Patent Assignee: GEN INSTR CORP DELAWARE (GENN ); GEN INSTR CORP (GENN )  
Inventor: CANDELORE B

Number of Countries: 034 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 891084	A2	19990113	EP 98111861	A	19980626	199912 B
NO 9803094	A	19990111	NO 983094	A	19980703	199912
CA 2242160	A	19990109	CA 2242160	A	19980630	199925
JP 11168709	A	19990622	JP 98228478	A	19980709	199935
CN 1212576	A	19990331	CN 98117886	A	19980709	200005
BR 9802429	A	19991005	BR 982429	A	19980709	200006
KR 99013861	A	19990225	KR 9828499	A	19980709	200018
US 6057872	A	20000502	US 97890066	A	19970709	200029
TW 376632	A	19991211	TW 98111108	A	19980709	200043
MX 9805517	A1	19990901	MX 985517	A	19980708	200067

Priority Applications (No Type Date): US 97890066 A 19970709

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 891084	A2	E	23	H04N-007/16	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
NO 9803094	A			H04N-007/173	
CA 2242160	A			H04N-007/16	
JP 11168709	A		86	H04N-007/16	
CN 1212576	A			H04N-007/16	
BR 9802429	A			H04M-007/16	
KR 99013861	A			G06F-015/16	
US 6057872	A			H04N-007/10	
TW 376632	A			H04N-017/00	
MX 9805517	A1			G07B-011/00	

**Digital coupon system for pay TV - ...**

... monitors user terminal usage pattern to determine whether coupon  
information preconditions have been satisfied

...Abstract (Basic): services according to preconditions. The terminals  
maintain a running balance of the credits obtained and monitor  
terminal usage patterns to determine whether the preconditions of the  
digital coupon pattern have been satisfied...

...USE - Coupons are for cable TV , satellite TV and computer  
networks over which services are available for a fee. It enable users  
to obtain credits when...

...services in free mode or using paper coupons. It allows users to e.g.  
purchase pay - per - view programs, allows the user to take a quick  
inventory, allows credit use flexibility and monitors...

...Title Terms: TELEVISION ;

International Patent Class (Main): G06F-015/16 ...



... H04N-007/10 ...

... H04N-007/16 ...

... H04N-007/173 ...

... H04N-017/00

...International Patent Class (Additional): G06F-017/40 ...

... H04L-012/14 ...

... H04N-007/14 ...

... H04N-007/18

Manual Codes (EPI/S-X): W02-F05A ...

... W02-F10N3

26/3,K/70 (Item 70 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011945105 \*\*Image available\*\*  
WPI Acc No: 1998-362015/199831  
Related WPI Acc No: 1998-206785; 1998-556695  
XRPX Acc No: N98-282667

Digital interactive video distribution system for pay - per - view ,  
VOD service in hotels, motels, hospitals - has decoder circuit equipped  
with screen buffer for receiving and merging first and second source data  
in second digital format and for converting format of merged data into  
suitable format

Patent Assignee: SPECTRADYNE INC (SPEC-N)  
Inventor: FULLER W H; PUGH J  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5767894	A	19980616	US 95378616	A	19950126	199831 B
			US 95401071	A	19950308	

Priority Applications (No Type Date): US 95378616 A 19950126; US 95401071 A  
19950308

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5767894	A	23	H04N-007/173	Cont of application US 95378616 Cont of patent US 5729279

Digital interactive video distribution system for pay - per - view ,  
VOD service in hotels, motels, hospitals...

...Abstract (Basic): The system has a distribution network for  
delivering video programmes to several selected video monitors  
through selected transmission channels. Several computers are  
connected to the network for storing digitised data from a first source  
generating data screens for the presentation on one or more selected  
televisions . A video server stores the digitised data from a second  
source generating data screens for the presentation on one or more  
selected televisions . A converter circuit is electrically connected  
to the video server for converting the first source...

...data is converted into a suitable format so that the presentation on one  
or more televisions appear as a combined image of the first and the  
second source data...

...and encode multiple data screens. Enables to merge subtitles with video  
programme. Displays memory intensive, interactive computer generated  
data...

International Patent Class (Main): H04N-007/173  
Manual Codes (EPI/S-X): T01-H07C3B ...

... W02-F10A ...

... W02-F10K

26/3,K/74 (Item 74 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011385961 \*\*Image available\*\*  
WPI Acc No: 1997-363868/199733  
XRPX Acc No: N97-302464

Bill processing method for customers of nodes having billing cycle - in which bill production initiator periodically activates and initiates a billing cycle for number of customer bill records stored in memory  
Patent Assignee: TELE-COMMUNICATIONS INC (TELE-N); COHEN M B (COHE-I); GOLLOB D J (GOLL-I); LOGAN J R (LOGA-I); WILLIAMS C G (WILL-I); CSG SYSTEMS INC (CSGS-N)

Inventor: COHEN M B; GOLLOB D J; SWITZER A W; WILLIAMS C G; LOGAN J R  
Number of Countries: 073 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9724688	A1	19970710	WO 96US20190	A	19961224	199733 B
AU 9714260	A	19970728	AU 9714260	A	19961224	199746
US 20010009002	A1	20010719	US 95581733	A	19951229	200143
			US 96631325	A	19960412	
			US 96704840	A	19960828	
			US 9826095	A	19980219	
US 6493680	B2	20021210	US 95581733	A	19951229	200301
			US 96631325	A	19960412	
			US 96704840	A	19960828	
			US 9826095	A	19980219	

Priority Applications (No Type Date): US 96704840 A 19960828; US 95581733 A 19951229; US 96631325 A 19960412; US 9826095 A 19980219

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9724688 A1 E 54 G06F-017/60

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9714260 A G06F-017/60 Based on patent WO 9724688

US 20010009002 A1 G06F-017/60 Cont of application US 95581733

Cont of application US 96631325

Cont of application US 96704840

US 6493680 B2 G06F-017/60 Cont of application US 95581733

Cont of application US 96631325

Cont of application US 96704840

...Abstract (Basic): The bill processing method for customers having a particular **billing** cycle involves **monitoring** the current time and date, and gathering all customer bill records to be processed. All...

...begin date and time greater than the current time and date are gathered together and **distributed** into node **groups** based on the node system associated with the customer...

...groups are further divided into processing group files, such that the number of customer bills **distributed** into each processing **group** file is predetermined. The processing group files are then processed to generate a bill for...

...USE/ADVANTAGE - Billing system for periodically generating bills for cable **television** subscribers. Minimises impact on performance of OLTP

THE  
CLAIMS  
OF  
U.S.  
VERSION  
READ  
MUCH  
BETTER  
THAN  
THIS  
ABSTRACT  
MSO'S

transactions. Allows for centralised control over billing operations...  
International Patent Class (Main): **G06F-017/60**  
Manual Codes (EPI/S-X): **T01-J05A1** ...

... **W02-F03A5** ...

... **W02-F10N5**

26/3,K/75 (Item 75 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011283712 \*\*Image available\*\*  
WPI Acc No: 1997-261617/199724  
XRPX Acc No: N97-216186

**Management system for tracking use of applications available to subscribers of interactive network - generates number of event records at application server and using at least one active domain identifier for domain being executed, each domain having logical location in application**

Patent Assignee: AT & T CORP (AMTT )  
Inventor: CATHEY D A; CHAU W; MATHIS K R; NEMA P; YANG J; MATHIS K  
Number of Countries: 005 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 773687	A2	19970514	EP 96117888	A	19961107	199724 B
CA 2189703	A	19970508	CA 2189703	A	19961106	199736
US 5778182	A	19980707	US 95553117	A	19951107	199834
CA 2189703	C	20000808	CA 2189703	A	19961106	200051
EP 773687	B1	20030827	EP 96117888	A	19961107	200358
DE 69629650	E	20031002	DE 629650	A	19961107	200372
			EP 96117888	A	19961107	

Priority Applications (No Type Date): US 95553117 A 19951107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 773687	A2	E	18	H04N-007/173	

Designated States (Regional): DE FR GB

CA 2189703	A		H04H-009/00
US 5778182	A		H04N-007/173
CA 2189703	C E		H04H-009/00
EP 773687	B1 E		H04N-007/173

Designated States (Regional): DE FR GB

DE 69629650 E H04N-007/173 Based on patent EP 773687

**Management system for tracking use of applications available to subscribers of interactive network...**

...Abstract (Basic): The **usage** management system for **tracking** a sequence of events generated by a number of applications in response to usage activities of an **interactive** system has a server which is adapted to receive a number of event records generated...

...USE/ADVANTAGE - E.g. for **interactive television** system environment supporting **video games** applications, video shopping, educational packages etc. Also for computer **network** . Enables service **providers** to customise applications based on accurate responsive **feedback** . Tracks time of occurrence of each domain identified in each event record...

...International Patent Class (Main): H04N-007/173

Manual Codes (EPI/S-X): T01-H07C5A ...

... W02-F04B ...

... W02-F10 ...

... W02-F10N7

26/3,K/76 (Item 76 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

011176627 \*\*Image available\*\*  
WPI Acc No: 1997-154552/199714  
XRPX Acc No: N97-127677

High definition TV motion picture distribution network via  
satellites - has service centre for management of commercial and  
administrative planning, network control centre, receiver terminals with  
data recording device and high resolution decoder

Patent Assignee: TELECOM ITAL SPA (TELE-N); SIP SOC ITAL ESERCIZIO TELECOM  
(SIPI-N)

Inventor: GULLA V; GULLA' V

Number of Countries: 073 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9706637	A1	19970220	WO 96IT155	A	19960729	199714 B
AU 9666681	A	19970305	AU 9666681	A	19960729	199726
EP 870403	A1	19981014	EP 96926566	A	19960729	199845
			WO 96IT155	A	19960729	
IT 1281321	B	19980218	IT 95RM553	A	19950804	199912
AU 713249	B	19991125	AU 9666681	A	19960729	200006
EP 870403	B1	20000419	EP 96926566	A	19960729	200024
			WO 96IT155	A	19960729	
JP 2000505250	W	20000425	WO 96IT155	A	19960729	200031
			JP 97508284	A	19960729	
DE 69607858	E	20000525	DE 607858	A	19960729	200032
			EP 96926566	A	19960729	
			WO 96IT155	A	19960729	
ES 2148782	T3	20001016	EP 96926566	A	19960729	200058
US 6169877	B1	20010102	WO 96IT155	A	19960729	200103
			US 9811505	A	19980306	
CA 2227983	C	20020409	CA 2227983	A	19960729	200233
			WO 96IT155	A	19960729	

RELATED  
D.O.C.  
BENEFIT

Priority Applications (No Type Date): IT 95RM553 A 19950804

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9706637 A1 E 29 H04N-007/16

Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ  
DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG  
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN  
Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE  
LS LU MC MW NL OA PT SD SE SZ UG

AU 9666681 A Based on patent WO 9706637

EP 870403 A1 E Based on patent WO 9706637

Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI  
LT LU LV MC NL PT SE SI

IT 1281321 B H04N-000/00

AU 713249 B Previous Publ. patent AU 9666681

Based on patent WO 9706637

EP 870403 B1 E H04N-007/16 Based on patent WO 9706637

Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI  
LT LU LV MC NL PT SE SI

JP 2000505250 W 25 H04N-017/00 Based on patent WO 9706637

DE 69607858 E H04N-007/16 Based on patent EP 870403

Based on patent WO 9706637

ES 2148782 T3 H04N-007/16 Based on patent EP 870403

US 6169877 B1 H04H-001/00 Based on patent WO 9706637

CA 2227983 C E H04N-007/16 Based on patent WO 9706637

High definition TV motion picture distribution network via  
satellites -

...Abstract (Basic): the cable lines (6). The quality of the transmission  
via the satellites is checked by monitoring both the transmission  
terminals and the receiver terminals...

...Title Terms: TELEVISION ;

...International Patent Class (Main): H04N-000/00 ...

... H04N-007/16 ...

... H04N-017/00

...International Patent Class (Additional): H04N-007/015 ...

... H04N-007/10 ...

... H04N-007/20

Manual Codes (EPI/S-X): W02-F04A1 ...

... W02-F05A1 ...

... W02-F06A ...

... W02-F06C



US006169877B1

**(12) United States Patent**  
**Gulla'****(10) Patent No.: US 6,169,877 B1**  
**(45) Date of Patent: Jan. 2, 2001****(54) HIGH DENSITY TV MOTION PICTURE**  
**DISTRIBUTION NETWORK****(75) Inventor: Vincenzo Gulla', Guidonia (IT)****(73) Assignee: Telecom Italia S.p.A., Rome (IT)****(\*) Notice:** Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.**(21) Appl. No.: 09/011,505****(22) PCT Filed: Jul. 29, 1996****(86) PCT No.: PCT/IT96/00155****§ 371 Date: Mar. 6, 1998****§ 102(e) Date: Mar. 6, 1998****(87) PCT Pub. No.: WO97/06637****PCT Pub. Date: Feb. 20, 1997****(30) Foreign Application Priority Data**

Aug. 4, 1995 (IT) ..... RM95A0553

**(51) Int. Cl.<sup>7</sup> ..... H04H 1/00; H04H 7/00;**  
H04B 7/185; H04N 7/10**(52) U.S. Cl. .... 455/3.1; 348/7; 348/8;**  
455/12.1; 455/6.3**(58) Field of Search .... 348/7, 10, 8; 455/3.2,**  
455/6.3, 12.1, 3.1**(56) References Cited****U.S. PATENT DOCUMENTS**

4,099,121	*	7/1978	Fang	325/4
5,291,554		3/1994	Morales	
5,303,294	*	4/1994	Kimoto et al.	380/5
5,381,476	*	1/1995	Kimoto et al.	380/5
5,440,336	*	8/1995	Buhro	348/13
5,509,073	*	4/1996	Monnin	380/20
5,579,367	*	11/1996	Raymond et al.	455/3.2
5,583,562	*	12/1996	Birch et al.	455/3.2
5,603,077	*	2/1997	Muckle et al.	455/3.2

5,696,560	*	12/1997	Songer	348/436
5,801,754	*	9/1998	Ruybal et al.	348/7
5,822,014	*	10/1998	Steyer et al.	348/563

**FOREIGN PATENT DOCUMENTS**

0 506 435	*	9/1992	(CA)	H04N/7/167
0 277 451		8/1988	(EP)	

**OTHER PUBLICATIONS**

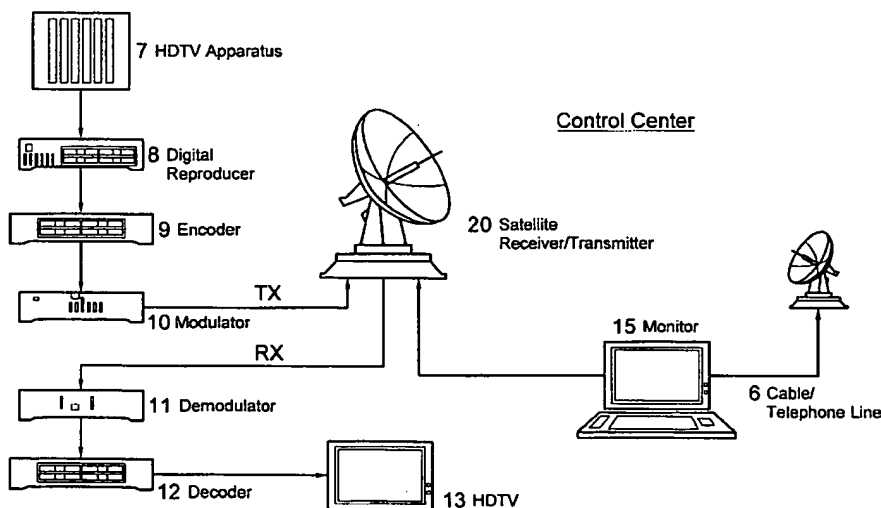
IEEE Transactions on Consumer Electronics, vol. 38, No. 3, Aug. 1, 1992, New Yor, NY, US. pp. 296-299, XP000311857; Kenji Nakashima et al; HDTV Broadcast, from Studio to Home.\*

By K. Nakamura et al., "HDTV Transmission Service Now Available in the Satellite Video Communication Service", *NTT Review*, vol. 5, No. 3, May 1, 1993, Tokyo, Japan, pp. 58-61.By K. Nakashima et al., "HDTV Broadcast, From Studio to Home", *IEEE Transactions on Consumer Electronics*, vol. 38, No. 3, Aug. 1, 1992, New York, pp. 296-299.

\* cited by examiner

*Primary Examiner*—Andrew I. Failc*Assistant Examiner*—Hai V. Tran*(74) Attorney, Agent, or Firm*—Young & Thompson**(57)****ABSTRACT**

High definition TV motion picture distribution network via satellite comprising a service center (5) for the management and the commercial/administrative planning, a network control center (3) which controls the network both as regards the transmission via satellite (2) and the monitoring of the receiver terminals (4', 41, . . . 4'') through the terrestrial network (6), the receiver terminals being provided with data recording device (22), a high resolution decoder (23), and a control unit (24) which stores and processes again information related to the operation of the terminal (4). Transportable units (1) directly linked to the satellite (2) allow to transmit live pictures through the network.

**9 Claims, 3 Drawing Sheets**



26/3,K/83 (Item 83 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

010483516 \*\*Image available\*\*  
WPI Acc No: 1995-384836/199550  
XRPX Acc No: N95-281928

**Program relocating Video -on- demand system using telephone network - controls transfer of video program requested by subscriber to video storage device closest to subscriber site, and establishes communication between storage device and subscriber terminal**

Patent Assignee: NEC CORP (NIDE )  
Inventor: NAKAI S; NISHIO M; YOSHIDA M  
Number of Countries: 003 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2289600	A	19951122	GB 9510293	A	19950522	199550 B
JP 7322235	A	19951208	JP 94106995	A	19940520	199607
US 5557317	A	19960917	US 95447244	A	19950522	199643
GB 2289600	B	19990303	GB 9510293	A	19950522	199911

Priority Applications (No Type Date): JP 94106995 A 19940520

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2289600	A		22	H04M-011/08	
JP 7322235	A		13	H04N-007/173	
US 5557317	A		10	H04N-007/14	
GB 2289600	B			H04M-011/08	

**Program relocating Video -on- demand system using telephone network...**

...Abstract (Basic): The system comprises a database and a number of video storage devices **distributed** over a **network** area for storing a video program supplied from the video information provider. A video gateway ...

...a subscriber terminal to produce a control signal according to the database. A service request **monitor analyses subscriber** request from the gateway to produce a list of recorded calls...

...Abstract (Equivalent): A **video -on- demand** system for providing video signals from a video information provider to any one of a...

...a plurality of video storage devices **distributed** over a **network** area for storing one or more video programs supplied from said video information provider...

...a service request **monitor** for **analyzing subscriber** requests received by the video gateway to produce a list of recorded calls...

...International Patent Class (Main): **H04N-007/14** ...

... **H04N-007/173**

International Patent Class (Additional): **H04L-012/54** ...

... **H04L-012/58**

...Manual Codes (EPI/S-X): **W02-F05A3C**

26/3,K/88 (Item 88 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2005 Thomson Derwent. All rts. reserv.

009950499 \*\*Image available\*\*

WPI Acc No: 1994-218212/199426

Related WPI Acc No: 1994-200604; 1994-218208; 1994-218209; 1994-218210;  
1994-218211; 1994-218213; 1995-215451; 1995-215457; 1995-215458;  
1995-301543; 1996-442594; 1997-535199; 1998-230155; 2000-023002;  
2000-409817; 2001-342065; 2001-600980; 2002-268734; 2003-015963;  
2003-119627; 2003-438078; 2003-810936; 2005-062991

XRFX Acc No: N04-036100

User-friendly cable TV programme delivery system to subscriber homes -  
provides subscribers with menu-driven access to expanded TV programme  
package, including maintenance of charging and billing information

Patent Assignee: DISCOVERY COMMUNICATIONS INC (DISC-N)

Inventor: BONNER A E; HENDRICKS J S

Number of Countries: 045 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9414283	A1	19940623	WO 93US11706	A	19931202	199426 B
AU 9458698	A	19940704	AU 9458698	A	19931202	199437
EP 674824	A1	19951004	WO 93US11706	A	19931202	199544
			EP 94904814	A	19931202	
EP 674824	B1	19990217	WO 93US11706	A	19931202	199912
			EP 94904814	A	19931202	
			EP 98100142	A	19931202	
DE 69323562	E	19990325	DE 93623562	A	19931202	199918
			WO 93US11706	A	19931202	
			EP 94904814	A	19931202	
ES 2128551	T3	19990516	EP 94904814	A	19931202	199926
BR 9307625	A	19990831	BR 937625	A	19931202	200002
			WO 93US11706	A	19931202	
ES 2152712	T3	20010201	EP 98100142	A	19931202	200112
CA 2444289	A1	19940623	CA 2151462	A	19931202	200405
			CA 2444289	A	19931202	
CA 2444294	A1	19940623	CA 2151462	A	19931202	200405
			CA 2444294	A	19931202	
CA 2151462	C	20040224	CA 2151462	A	19931202	200422
			WO 93US11706	A	19931202	

*ALL  
DOCUMENTS  
BENEATH  
RELATED*

Priority Applications (No Type Date): US 92991074 A 19921209

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9414283 A1 E 80 H04N-007/16

Designated States (National): AT AU BB BG BR BY CA CH CZ DE DK ES FI GB

HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL

OA PT SE

AU 9458698 A

Based on patent WO 9414283

EP 674824 A1 E 143

Based on patent WO 9414283

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI NL PT

SE

EP 674824 B1 E

Related to application EP 98100142

Related to patent EP 852442

Based on patent WO 9414283

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI NL PT

SE

DE 69323562 E

Based on patent EP 674824

Based on patent WO 9414283

ES 2128551 T3

Based on patent EP 674824

BR 9307625      A                              Based on patent WO 9414283  
ES 2152712      T3                      H04N-007/16      Based on patent EP 852442  
CA 2444289      A1 E    10      H04N-007/16      Div ex application CA 2151462  
CA 2444294      A1 E    21      H04N-007/173      Div ex application CA 2151462  
CA 2151462      C    E                      H04N-007/16      Based on patent WO 9414283  
    **User-friendly cable TV programme delivery system to subscriber homes...**

...provides subscribers with menu-driven access to expanded TV programme package, including maintenance of charging and billing information

...Abstract (Basic): An expanded TV programme delivery system (200) allows viewers to select TV and audio programmes from a series of menus. Many programmes may be transmitted, using digital...

...programmes by using a remote control unit. Data w.r.t. programmes actually viewed by **subscribers** is compiled and **analysed**, and used for future packaging of programmes, customising menu selections, targeting advertisements, and maintaining charging...

...USE/ADVANTAGE - Economic **distribution** of **multiple** TV programmes, using digital compression and signalling, with user-friendly interface enabling easy subscriber-selection...

...Title Terms: **TELEVISION** ;

International Patent Class (Main): **H04N-007/16** ...

... **H04N-007/173**

...International Patent Class (Additional): **H04N-007/10** ...

... **H04N-007/20**

Manual Codes (EPI/S-X): **W02-F03A5** ...

... **W02-F05A3C**



US006201536B1

(12) **United States Patent**  
**Hendricks et al.**

(10) Patent No.: **US 6,201,536 B1**  
(45) Date of Patent: **Mar. 13, 2001**

(54) **NETWORK MANAGER FOR CABLE  
TELEVISION SYSTEM HEADENDS**

(75) Inventors: **John S. Hendricks**, Potomac, MD  
(US); **Richard E. Wunderlich**,  
Alpharetta, GA (US)

(73) Assignee: **Discovery Communications, Inc.**,  
Bethesda, MD (US)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **08/352,205**

(22) Filed: **Dec. 2, 1994**

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 08/160,280, filed on  
Dec. 2, 1993, now Pat. No. 5,600,364, and a continuation-  
in-part of application No. 08/160,281, filed on Dec. 2, 1993,  
now Pat. No. 5,798,785, which is a continuation-in-part of  
application No. 07/991,074, filed on Dec. 9, 1992.

(51) Int. Cl.<sup>7</sup> ..... **H04N 7/173**

(52) U.S. Cl. .... **345/327; 348/7**

(58) Field of Search ..... **348/7, 12, 13,**  
**348/1, 6, 8, 9, 906; 455/4.2, 5.1, 6.1, 2;**  
**345/327; H04N 7/16, 7/173**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,398,216	8/1983	Field et al. .
4,517,598	5/1985	Van Valkenburg et al. .
4,528,643	7/1985	Freeny, Jr. .
4,587,520	5/1986	Astle .
4,621,282	11/1986	Ahern .
4,633,462	12/1986	Stifle et al. .

(List continued on next page.)

**FOREIGN PATENT DOCUMENTS**

149536	1/1984	(EP) .
103438	3/1984	(EP) .

145063	6/1985	(EP) .
158548	10/1985	(EP) .
167237	1/1986	(EP) .
399200	11/1990	(EP) .
2177873A *	1/1987	(GB) .

**OTHER PUBLICATIONS**

Sorce et al., Human Factors In Telecommunications, Sep.  
10-14, 1990.\*

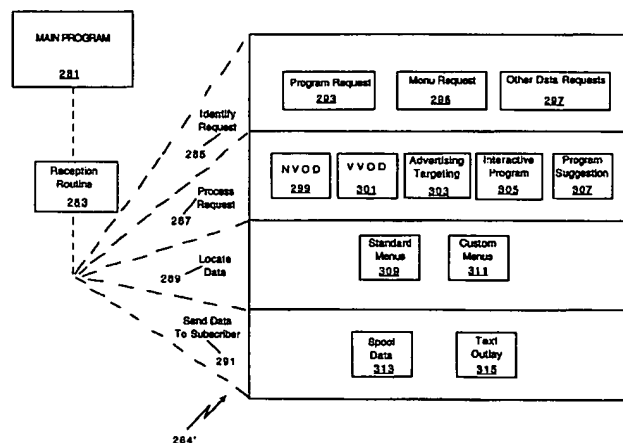
Primary Examiner—Chris Grant

(74) Attorney, Agent, or Firm—Dorsey & Whitney LLP

(57) **ABSTRACT**

A novel network manager for use with a cable television system headend capable of monitoring and managing headend components and set top terminals in a television delivery system is described. The invention relates to methods and apparatus that manage and coordinate the reception of various programming and control signals at a headend. The invention manages and coordinates the storage of such signals for intelligent selection and distribution to set top terminals. The invention makes use of a receiver or set of receivers, a work station, a program control information processing component, a network management CPU, databases, control software and an instruction memory. The invention uses these components to manage and monitor certain headend components, such as signal reception equipment, an authorization component, a file server, MPEG decoders, a digital buffer with frame repeat and channel modulators. The invention is particularly useful in processing and responding to upstream information and subscriber communications received from set top terminals. In so doing, the invention accommodates various system services, including (1) near video on demand (NVOD), (2) virtual video on demand (VVOD), (3) video on demand (VOD), (4) interactive program services, (5) program suggestion features, (6) advertisement targeting, (7) generation of standard and custom menus, and (8) data spooling and text overlaying.

**85 Claims, 17 Drawing Sheets**





US006160989A

# United States Patent [19]

Hendricks et al.

[11] Patent Number: **6,160,989**  
[45] Date of Patent: **Dec. 12, 2000**

- [54] **NETWORK CONTROLLER FOR CABLE TELEVISION DELIVERY SYSTEMS**
- [75] Inventors: **John S. Hendricks**, Potomac; **Alfred E. Bonner**, Bethesda, both of Md.
- [73] Assignee: **Discovery Communications, Inc.**, Bethesda, Md.

167237 1/1986 European Pat. Off. .  
0 281 293 9/1988 European Pat. Off. .  
399200 11/1990 European Pat. Off. .  
450841 10/1991 European Pat. Off. .  
62-245167 3/1989 Japan .  
2 177 873A 1/1987 United Kingdom .

## OTHER PUBLICATIONS

"Information Technology—coding of moving pictures and associated audio for digital storage media at up to about 1.5 Mbits"; International Standard, First Edition; Ref. No. ISO/IEC 11172-3; Aug. 1, 1993.

Sorce, et al., *Human Factors In Telecommunications*, Sep. 10-14, 1990.

Primary Examiner—Chris Grant  
Attorney, Agent, or Firm—Dorsey & Whitney LLP

- [21] Appl. No.: **08/735,552**  
[22] Filed: **Oct. 23, 1996**

## Related U.S. Application Data

- [63] Continuation of application No. 08/160,280, Dec. 2, 1993, Pat. No. 5,600,364, which is a continuation-in-part of application No. 07/991,074, Dec. 9, 1992.

- [51] Int. Cl.<sup>7</sup> ..... **H04N 7/173**  
[52] U.S. Cl. .... **455/4.2; 455/5.1; 348/1; 348/9; 348/12**  
[58] Field of Search ..... **348/6, 9, 10, 11, 348/12, 13, 7, 14, 15, 16, 17, 18, 1, 2, 3; 455/4.2, 5.1, 6.1, 6.2, 6.3; H04N 7/16, 7/173**

## References Cited

### U.S. PATENT DOCUMENTS

- D. 301,037 5/1989 Matsuda .  
D. 314,383 2/1991 Hafner .  
D. 325,581 4/1992 Schwartz .  
D. 329,238 9/1992 Grasso et al. .  
D. 331,760 12/1992 Renk, Jr. .  
3,891,792 6/1975 Kimura .  
4,361,848 11/1982 Pognet et al. .  
4,381,522 4/1983 Lambert .  
4,398,216 8/1983 Field et al. .... **348/3**  
4,484,217 11/1984 Block et al. .

(List continued on next page.)

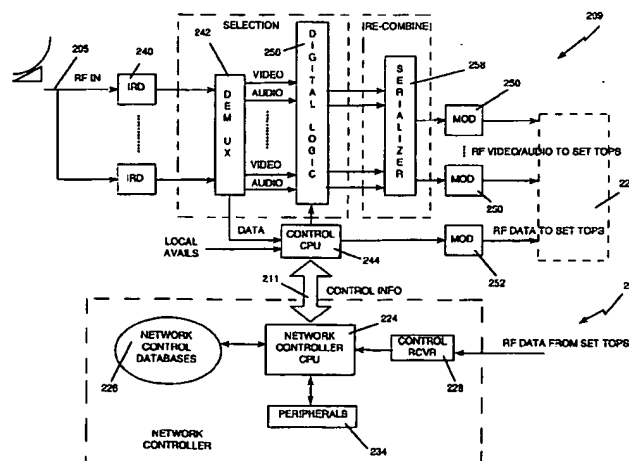
### FOREIGN PATENT DOCUMENTS

- 149536 1/1984 European Pat. Off. .  
145063 6/1985 European Pat. Off. .  
158548 10/1985 European Pat. Off. .

## [57] ABSTRACT

A novel network controller for use with a digital cable headend capable of monitoring and controlling set top terminals in a television program delivery system is described. The invention relates to methods and apparatus for a network controller that manages a configuration of set top terminals in a program delivery system. The invention is particularly useful in program delivery systems with hundreds of channels of programming, a menu driven program selection system, and a program control information signal that carries data and identifies available program choices. Specifically, the invention modifies a program control information signal at the cable headend before the modified signal is transmitted to each set top terminal. This signal is used with polling methods to receive upstream data from the set top terminals. The invention initiates such upstream data retrieval, gathers all data received and compiles viewer demographics information and programs watched information. The invention processes this data and information to generate packages of advertisements, as well as account and billing reports, targeted towards each set top terminal. The invention uses upstream data reception hardware, databases and processing hardware and software to accomplish these functions.

23 Claims, 27 Drawing Sheets





US006052554A

# United States Patent [19]

Hendricks et al.

[11] Patent Number: **6,052,554**  
 [45] Date of Patent: **\*Apr. 18, 2000**

## [54] TELEVISION PROGRAM DELIVERY SYSTEM

[75] Inventors: **John S. Hendricks**, Potomac; **Alfred E. Bonner**, Bethesda, both of Md.

[73] Assignee: **Discovery Communications, Inc.**, Bethesda, Md.

[\*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: **08/711,742**

[22] Filed: **Sep. 10, 1996**

### Related U.S. Application Data

[63] Continuation of application No. 08/160,191, Dec. 2, 1993, Pat. No. 5,559,549, which is a continuation-in-part of application No. 07/991,074, Dec. 9, 1992.

[51] Int. Cl.<sup>7</sup> ..... **H04N 7/173**

[52] U.S. Cl. .... **455/5.1; 348/12**

[58] Field of Search ..... **348/6, 7, 12, 13, 348/14, 15, 16, 17, 18, 19, 10, 1, 3, 4, 5; 455/3.1, 4.1, 4.2, 5.1, 6.1, 6.2, 6.3; H04N 7/16, 7/173**

### [56] References Cited

#### U.S. PATENT DOCUMENTS

D. 301,037 5/1989 Matsuda .  
 D. 314,383 2/1991 Hafner .  
 D. 325,581 4/1992 Schwartz .

(List continued on next page.)

#### FOREIGN PATENT DOCUMENTS

2044574 12/1992 Canada .  
 149536 1/1984 European Pat. Off. .  
 103438 3/1984 European Pat. Off. .  
 145063 6/1985 European Pat. Off. .  
 158548 10/1985 European Pat. Off. .

(List continued on next page.)

### OTHER PUBLICATIONS

Reimer, "Memories in my Pocket", Feb. 1991.  
 Olshansky et al., "Subscriber Distribution Networks Using Compressed Digital Video", Nov. 1992.  
 Dinaro, et al., "Markets and Products Overview", 1991.  
 Advertisement, "Hong Kong Enterprise", Nov. 1988.  
 Advertisement, "Great Presentations", 1987.  
 Advertisement, "Consumer Dist.", Fall/Winter 1992.  
 van den Boom, "Interactive Videotex . . .", Nov.-Dec. 1986.  
 Moloney, "Digital Compression in Todays . . .", Jun. 6, 1993.  
 Bestler, "Flexible Data Structures . . .", Jun. 6, 1993.  
 Sharpless, "Subscription Teletext for Value Added Services", Aug. 1985.  
 Gelman et al., "A Store-and Forward . . .", Jun. 21, 1991.

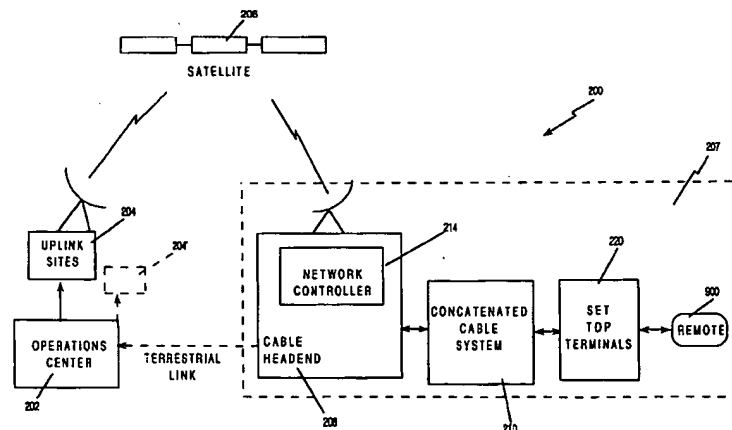
Primary Examiner—Chris Grant

Attorney, Agent, or Firm—Dorsey & Whitney LLP

### [57] ABSTRACT

An expanded television program delivery system is described which allows viewers to select television and audio program choices from a series of menus. The primary components of the system include an operations center, a digital cable headend, and at least one set top terminal having a remote control. The system allows for a great number of television signals to be transmitted by using digital compression techniques. A combined signal is transmitted over satellite to a cable headend, which may modify the combined signal for changes or additions in programming or menu content. The combined or modified signal is subsequently distributed to individual set top terminals in the cable network. Menus are partially stored in a set top terminal in each subscriber's home and may be reprogrammed by signals sent from the operations center or headend. Numerous types of menus may be used, incorporating information included within the video/data signal received by the set top terminal. A remote control unit with icon buttons allows a subscriber to select programs based upon a series of major menus, submenus, and during program menus. Various data gathering and analysis techniques are used to compile programs watched information that in turn is used in packaging programs, customizing menu selections, targeting advertisements, and maintaining account and billing information.

122 Claims, 11 Drawing Sheets





US005798785A

**United States Patent** [19]

Hendricks et al.

[11] Patent Number: 5,798,785

[45] Date of Patent: Aug. 25, 1998

[54] **TERMINAL FOR SUGGESTING PROGRAMS OFFERED ON A TELEVISION PROGRAM DELIVERY SYSTEM**

355697 2/1990 European Pat. Off. .  
399200 11/1990 European Pat. Off. .  
402809 12/1990 European Pat. Off. .

[75] Inventors: John S. Hendricks, Potomac; Alfred E. Bonner, Bethesda, both of Md.; Richard E. Wunderlich, Alpharetta, Ga.

(List continued on next page.)

[73] Assignee: Discovery Communications, Inc., Bethesda, Md.

**OTHER PUBLICATIONS**

Sharpless. "Subscription teletext for value added services". Aug. 1985.

Hong Kong Enterprise advertisement: Two Innovative New Consumer Products From SVI; Nov. 1988; p. 379.

Great Presentations advertisement: Remote, Remote; 1987; p. 32H.

[21] Appl. No.: 160,281

[22] Filed: Dec. 2, 1993

(List continued on next page.)

**Related U.S. Application Data**

[63] Continuation-in-part of Ser. No. 991,074, Dec. 9, 1992.

[51] Int. Cl.<sup>6</sup> ..... H04N 7/16

[52] U.S. Cl. .... 348/1; 348/6; 348/10; 348/12; 455/2; 455/6.2; 455/5.1

[58] Field of Search ..... 348/1, 2, 5, 7, 348/12, 9, 10, 6, 13, 906, 11; 358/84, 86; 455/4.2, 2, 5.1, 6.1, 6.2, 6.3; H04N 7/16, 7/173

[56] **References Cited****U.S. PATENT DOCUMENTS**

D. 301,037 5/1989 Matsuda .  
D. 314,383 2/1991 Hafner .  
D. 325,581 4/1992 Schwartz .  
D. 329,238 9/1992 Grasso et al. .  
D. 331,760 12/1992 Renk, Jr. .

(List continued on next page.)

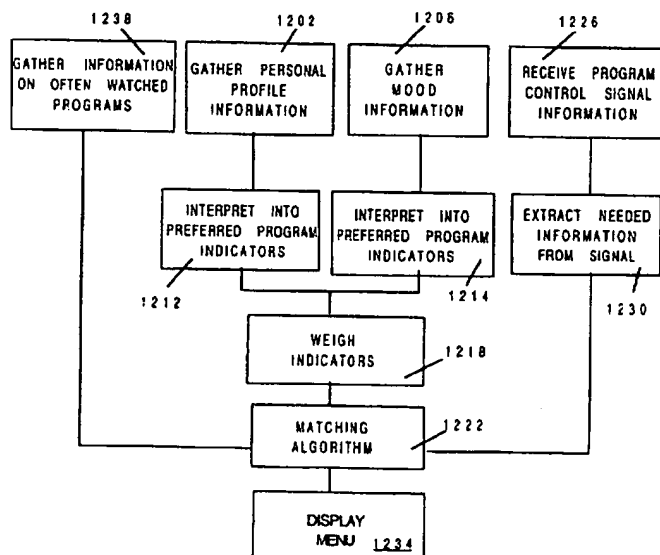
**FOREIGN PATENT DOCUMENTS**

2044574 12/1992 Canada .  
243312 10/1987 European Pat. Off. .

Primary Examiner—John K. Peng  
Assistant Examiner—Chris Grant  
Attorney, Agent, or Firm—Dorsey & Whitney

[57] **ABSTRACT**

A novel reprogrammable set top terminal for a television program delivery system which suggests programs for viewing is described. The invention relates to methods and apparatus for reprogramming set top terminals, and selecting and displaying programs to suggest to subscribers for viewing. The invention is particularly useful in television program delivery systems with hundreds of channels of programming, a menu driven program selection system, and a program control information signal which carries data and identifies the available program choices. Specifically, the invention relates to remote reprogramming of terminal memory and the gathering and analysis of data for selecting programs to suggest to a subscriber. The invention is a terminal which includes a circuit for receiving incoming signals, a processor, memory, and a circuit to generate menu screens for display on a TV or monitor. Various data gathering and analysis techniques are used to customize selection of programs for display on a menu.

**56 Claims, 23 Drawing Sheets**

Set	Items	Description
S1	24463	VOD OR VIDEO(2W)DEMAND OR PAYPERVIEW? OR PAY()PER()VIEW? OR PAYPER()VIEW? OR ONDEMAND? OR ON()DEMAND
S2	93738	MSO OR (NETWORK? OR MULTIP? OR MULTIT? OR PLURAL? OR SEVERAL? OR MORE(2W)ONE OR GROUP? OR COLLECTION? OR ASSEMBL?)(3N)(- PROVIDER? OR DISTRIBUT? OR OPERATOR? OR SATELLITE? OR SYSTEM?-(2N)(DISTRIB? OR PROVID? OR OPERAT?))
S3	123230	MULTIMEDIA? OR MULTI()MEDIA? OR AUDIOVISUAL? OR AUDIO()VISUAL? OR MOVIE? OR TV OR TELEVISION? OR TVBROADCAST? OR MULTICAST? OR VIDEOGAME? OR VIDEO()GAME?
S4	44194	INTERACTIV? OR INTER()ACTIV?
S5	121231	CLOSE?()LOOP? OR CLOSEDLOOP? OR CLOSELOOP? OR FEEDBACK? OR FEED?()BACK?
S6	2064	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?)(5N)(UPLINK? OR UPLOAD? OR UP()(LOAD? OR LINK?))
S7	65882	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?)(5N)(USAGE? OR METADATA? OR META()DATA? OR PRICING? OR PRICE? OR HABIT? ? OR CHARACTERISTIC?)
S8	18697	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?)(5N)(BILLING? OR STOR?()ALLOCAT? OR SCHEDUL? OR SUBSCRI? - OR DATAFILE? OR DATA()FILE? OR FTP OR FILE()TRANSFER()PROTOCOL?)
S9	64811	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?)(5N)(DELIVER? OR TRANSMI? OR DOWNLOAD? OR DOWNLINK? OR DOWN() (LINK? OR LOAD?) OR URL OR ASSET?)
S10	68997	(CREAT? OR PRODUC? OR COMPIL? OR GENERAT?)(5N)(REPORT? OR - SUMMAR? OR RECAP? OR DATABASE? OR DATA()BASE? OR DATAFILE? OR DATA()FILE?)
S11	264562	IC=(G06F? OR H04N? OR H04L?)
S12	26175	(S1 OR S3) AND S2
S13	7602	S12 AND S1
S14	220	S13 AND (MSO OR MULTIPL?()SYSTEM?()OPERAT?)
S15	126	S14 AND S6:S10
S16	187	S14 AND S11
S17	3	(S16 OR S14) AND S6 AND S7:S9 AND S10
S18	126	S15 OR S17
S19	62	S13 AND S6 AND S7:S9 AND S10
S20	185	S15 OR S17:S19
S21	459980	AD=2003:2005
S22	130	S20 NOT S21
S23	130	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 348:EUROPEAN PATENTS 1978-2005/Jun W01

(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2005/UB=20050602,UT=20050526

(c) 2005 WIPO/Univentio

?



23/3/42 (Item 42 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

01011260 \*\*Image available\*\*  
VIDEO ON DEMAND GATEWAY

**PASSERELLE DE VIDEO A LA DEMANDE**

Patent Applicant/Assignee:

LIBERATE TECHNOLOGIES, 2 Circle Star Way, San Carlos, CA 94070, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

MAO Weidong, 23 Zaitz Farm Road, West Windsor, NJ 08550, US, US  
(Residence), (Designated only for: US)

KRISHNAMOORTHY Venu, 4209 Jakes Way, Bensalem, PA 19020, US, US  
(Residence), (Designated only for: US)

NEWMAN Michael, 102 Heather Driver, New Hope, PA 18938, US, US  
(Residence), (Designated only for: US)

FLOOD Aongus, 201 Woodside Avenue, Narberth, PA 19072, US, US (Residence)  
, (Designated only for: US)

Legal Representative:

JACOBSON Allan J (agent), 13-310 Summit Square Center, Route 413 &  
Doublewoods Road, Langhorne, PA 19047, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200341392 A2-A3 20030515 (WO 0341392)

Application: WO 2002US35796 20021107 (PCT/WO US02035796)

Priority Application: US 200110719 20011108

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10424

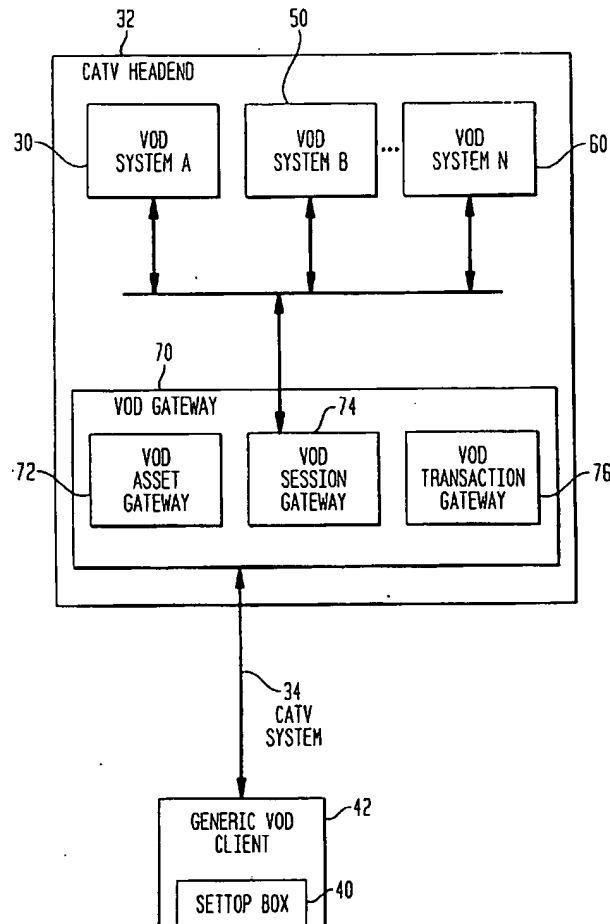
FOUR  
RELATED  
DOCS.  
BENEATH.



US 20030088876A1

(19) **United States**(12) **Patent Application Publication**  
Mao et al.(10) Pub. No.: **US 2003/0088876 A1**(43) Pub. Date: **May 8, 2003**(54) **VIDEO ON DEMAND GATEWAY**(52) U.S. Cl. .... 725/91; 725/87; 725/98; 725/1;  
725/4(75) Inventors: Weidong Mao, West Windsor, NJ (US);  
Venu Krishnamoorthy, Bensalem, PA  
(US); Michael Newman, New Hope,  
PA (US); Aongus Flood, Narbergh, PA  
(US)Correspondence Address:  
**ALLAN J. JACOBSON**  
13310 Summit Square Center  
Route 413 & Doublewoods Road  
Langhorne, PA 19047 (US)(73) Assignee: **Liberate Technologies**(21) Appl. No.: **10/010,719**(22) Filed: **Nov. 8, 2001****Publication Classification**(51) Int. Cl.<sup>7</sup> ..... **H04N 7/173**(57) **ABSTRACT**

A video on demand (VOD) gateway allows multiple incompatible and non-interoperable VOD systems to function as a single unified VOD system. A VOD gateway system includes a VOD asset gateway, a VOD session gateway, a VOD transaction gateway and a generic VOD client software program. The generic VOD client software resides in a CATV set-top box. The VOD asset gateway at the headend aggregates video inventory from multiple VOD vendor's equipment. The VOD session gateway at the headend translates a subscriber request in a generic protocol for VOD program into the proprietary protocol for a specific VOD system. The VOD transaction gateway at the headend aggregates transactions from multiple VOD vendor's equipment. In an alternate embodiment, a VOD gateway permits operators of multiple CATV systems to use multiple incompatible and non-interoperable VOD systems in each of a plurality of separate CATV systems.



What is claimed is:

1. In a broadcast communications system having a transmitting station and a receiving station, said transmitting station including a first VOD system having a first VOD asset management system, a first VOD business management system and a first VOD server, wherein said transmitting station includes a VOD gateway and said receiving station includes a generic VOD client, a method comprising:

transmitting a request from said VOD gateway to said first VOD asset management system for a list of VOD assets stored in said first VOD system;

receiving said list of VOD assets in stored in said first VOD system at said VOD gateway;

transmitting from said receiving station to said VOD gateway a request for a list of VOD assets;

transmitting said list of VOD assets from said VOD gateway to said receiving station;

receiving, at said VOD gateway, a request from said receiving station for a given VOD program selected from said list of VOD assets;

forwarding said request for said given VOD program to said first VOD server;

receiving said given VOD program at said receiving station;

recording the event that said given VOD program was received at said receiving station as a purchase event of said given VOD program; and

transmitting said purchase event of said given VOD program from said VOD gateway to said first VOD business management system.

2. A method in accordance with claim 1, wherein said given VOD program is a video program.

3. A method in accordance with claim 1, wherein said given VOD program is an audio program.

4. A method in accordance with claim 1, wherein said given VOD program is a graphic program.

5. A method in accordance with claim 1, wherein said given VOD program is a text program.

6. In a broadcast communications system having a transmitting station and a receiving station, said transmitting station including first and second VOD systems each having a respective first and second VOD asset management system, a respective first and second VOD business management system and a respective first and second VOD server, wherein said transmitting station includes a VOD gateway and said receiving station includes a generic VOD client, a method comprising:

transmitting a request from said VOD gateway to said first VOD asset management system for a first list of VOD assets stored in said first VOD system;

transmitting a request from said VOD gateway to said second VOD asset management system for a second list of VOD assets stored in said second VOD system;

receiving said first and second lists of VOD assets in stored in said first and second VOD systems at said VOD gateway;

aggregating said first and second lists of VOD assets to form a combined list of VOD assets;

transmitting from said receiving station to said VOD gateway a request for a list of VOD assets;

transmitting said combined list of VOD assets from said VOD gateway to said receiving station;

selecting, at said receiving station a given VOD program from said combined list of VOD assets;

receiving, at said VOD gateway, a request from said receiving station for said given VOD program;

determining whether said request for said given VOD program specifies a VOD program originating from said first VOD server or a VOD program originating from said second VOD server;

forwarding said request for said given VOD program to said first VOD server if said given VOD program originates from said first VOD server SYSTEM;

forwarding said request for said given VOD program to said second VOD server if said given VOD program originates from said second VOD server;

receiving said given VOD program at said receiving station;

recording the event that said given VOD program was received at said receiving station as a purchase event of said given VOD program; and

transmitting said purchase event of said given VOD program from said VOD gateway to said first VOD business management system if said given VOD program originates from said first VOD server; and

transmitting said purchase event of said given VOD program from said VOD gateway to said second VOD business management system if said given VOD program originates from said second VOD server.

7. A method in accordance with claim 6, wherein said given VOD program is a video program.

8. A method in accordance with claim 6, wherein said given VOD program is an audio program.

9. A method in accordance with claim 6, wherein said given VOD program is a graphic program.

10. A method in accordance with claim 6, wherein said given VOD program is a text program.

11. In a broadcast communications system having a transmitting station and a receiving station, said transmitting station including a first VOD system having a first VOD asset management system, wherein said transmitting station includes a VOD gateway and said receiving station includes a generic VOD client, a method comprising:

transmitting a request from said VOD gateway to said first VOD asset management system for a list of VOD assets stored in said first VOD system;

receiving said list of VOD assets in stored in said first VOD system at said VOD gateway; and

transmitting from said receiving station to said VOD gateway a request for a list of VOD assets;

transmitting said list of VOD assets from said VOD gateway to said receiving station.

12. In a broadcast communication system in accordance with claim 11, wherein said first VOD system further includes a first VOD server, a method of operating said VOD gateway further comprising:

selecting, at said receiving station a given VOD program from said list of VOD assets;

receiving, at said VOD gateway, a request from said receiving station for said given VOD program;

forwarding said request for said given VOD program to said first VOD server; and

receiving said given VOD program at said receiving station.

13. In a broadcast communication system in accordance with claim 12, wherein said first VOD system further includes a first VOD business management system, said method further comprising:

recording the event that said given VOD program was received at said receiving station as a purchase event of said given VOD program; and

transmitting said purchase event of said given VOD program from said VOD gateway to said first VOD business management system.

14. A method in accordance with claim 13, wherein said given VOD program is a video program.

15. A method in accordance with claim 13, wherein said given VOD program is an audio program.

16. A method in accordance with claim 13, wherein said given VOD program is a graphic program.

17. A method in accordance with claim 13, wherein said given VOD program is a text program.

18. In a broadcast communications system having a transmitting station and a receiving station, said transmitting station including first and second VOD systems each having a respective first and second VOD asset management system, wherein said transmitting station includes a VOD gateway and said receiving station includes a generic VOD client, a method comprising:

transmitting a request from said VOD gateway to said first VOD asset management system for a first list of VOD assets stored in said first VOD system;

transmitting a request from said VOD gateway to said second VOD asset management system for a second list of VOD assets stored in said second VOD system;

receiving said first and second lists of VOD assets in stored in said first and second VOD systems at said VOD gateway;

aggregating said first and second lists of VOD assets to form a combined list of VOD assets;

transmitting from said receiving station to said VOD gateway a request for a list of VOD assets; and

transmitting said combined list of VOD assets from said VOD gateway to said receiving station.

19. In a broadcast communication system in accordance with claim 18, wherein said first and second VOD systems at said transmitting station further includes respective first and second VOD servers, said method of operating said VOD gateway further comprising:

selecting, at said receiving station a given VOD program from said combined list of VOD assets;

receiving, at said VOD gateway, a request from said receiving station for said given VOD program;

determining whether said request for said given VOD program specifies a VOD program originating from said first VOD server or a VOD program originating from said second VOD server;

forwarding said request for said given VOD program to said first VOD server if said given VOD program originates from said first VOD server;

forwarding said request for said given VOD program to said second VOD server if said given VOD program originates from said second VOD server; and

receiving said given VOD program at said receiving station.

20. In a broadcast communication system in accordance with claim 19, wherein said first and second VOD systems further includes respective first and second VOD business management systems, said method further comprising:

recording the event that said given VOD program was received at said receiving station as a purchase event of said given VOD program; and

transmitting said purchase event of said given VOD program from said VOD gateway to said first VOD business management system if said given VOD program originates from said first VOD server; and

transmitting said purchase event of said given VOD program from said VOD gateway to said second VOD business management system if said given VOD program originates from said second VOD server.

21. A method in accordance with claim 20, wherein said given VOD program is a video program.

22. A method in accordance with claim 20, wherein said given VOD program is an audio program.

23. A method in accordance with claim 20, wherein said given VOD program is a graphic program.

24. A method in accordance with claim 20, wherein said given VOD program is a text program.

25. In a broadcast communication system having a transmitting station, a receiving station and a VOD gateway, said transmitting station including a first VOD system having a first VOD server, a method of operating said VOD gateway comprising:

receiving, at said VOD gateway, a request from said receiving station for a given VOD program;

forwarding said request for said given VOD program to said first VOD server; and

receiving said given VOD program at said receiving station.

26. In a broadcast communication system in accordance with claim 25, wherein said first VOD system further includes a first VOD business management systems, said method further comprising:

recording the event that said given VOD program was received at said receiving station as a purchase event of said given VOD program; and

(3)

transmitting said purchase event of said given VOD program from said VOD gateway to said first VOD business management system.

27. A method in accordance with claim 26, wherein said given VOD program is a video program.

28. A method in accordance with claim 26, wherein said given VOD program is an audio program.

29. A method in accordance with claim 26, wherein said given VOD program is a graphic program.

30. A method in accordance with claim 26, wherein said given VOD program is a text program.

31. In a broadcast communication system having a transmitting station, a receiving station and a VOD gateway, said broadcast communication system having a transmitting station including respective first and second VOD systems, said first VOD system including a first VOD server, said second VOD system including a second VOD server, and a receiving station, a method of operating said VOD gateway comprising:

receiving, at said VOD gateway, a request from said receiving station for a given VOD program;

determining whether said request for said given VOD program specifies a VOD program originating from said first VOD server or a VOD program originating from said second VOD server;

forwarding said request for said given VOD program to said first VOD server if said given VOD program originates from said first VOD server;

forwarding said request for said given VOD program to said second VOD server if said given VOD program originates from said first VOD server; and

receiving said given VOD program at said receiving station.

32. In a broadcast communication system in accordance with claim 31, wherein said first and second VOD systems further includes respective first and second VOD business management systems, said method further comprising:

recording the event that said given VOD program was received at said receiving station as a purchase event of said given VOD program; and

transmitting said purchase event of said given VOD program from said VOD gateway to said first VOD business management system if said given VOD program originates from said first VOD server; and

transmitting said purchase event of said given VOD program from said VOD gateway to said second VOD business management system if said given VOD program originates from said second VOD server.

33. A method in accordance with claim 32, wherein said given VOD program is a video program.

34. A method in accordance with claim 32, wherein said given VOD program is an audio program.

35. A method in accordance with claim 32, wherein said given VOD program is a graphic program.

36. A method in accordance with claim 32, wherein said given VOD program is a text program.

\* \* \* \* \*

(4)

23/3/44 (Item 44 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

01002608 \*\*Image available\*\*

**UTILIZATION OF RELATIONAL METADATA IN A TELEVISION SYSTEM**  
**UTILISATION DE METADONNEES RELATIONNELLES DANS UN SYSTEME DE TELEVISION**

Patent Applicant/Assignee:

OPENTV INC, 401 East Middlefield Road, Mountain View, CA 94043-4005, US,  
US (Residence), US (Nationality)

Inventor(s):

PIERRE Ludovic, 1210 Dolores Street, #3, San Francisco, CA 94110, US,  
SZYMANSKI Steven, 100 N. Whisman Road, #3215, Mountain View, CA 94043  
-4919, US,

HENSGEN Debra, 977 Upland Road, Redwood City, CA 94062, US,

Legal Representative:

CONLEY ROSE & TAYON P C (agent), RANKIN, Rory D., P.O. Box 398, Austin,  
TX 78767-0398, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200332638 A1 20030417 (WO 0332638)

Application: WO 2002US32151 20021009 (PCT/WO US0232151)

Priority Application: US 2001974142 20011010

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 11979

*RELATED  
Doc.  
BENEATH*



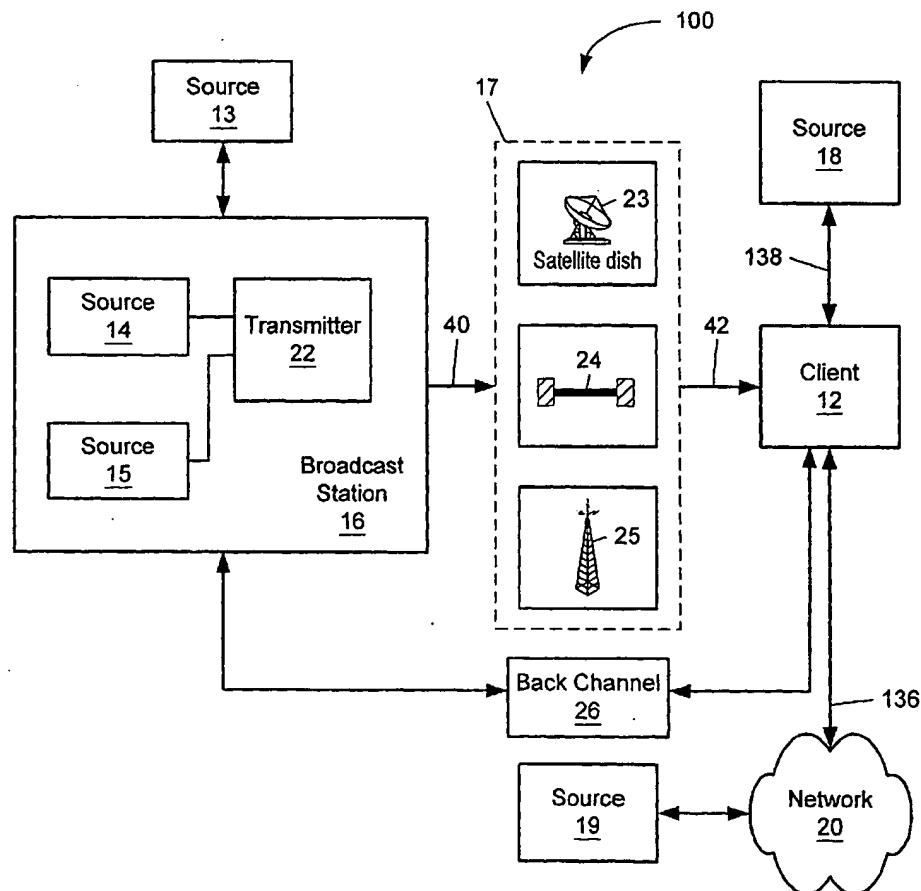
US 20030070183A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0070183 A1**  
Pierre et al. (43) **Pub. Date: Apr. 10, 2003**(54) **UTILIZATION OF RELATIONAL METADATA  
IN A TELEVISION SYSTEM**(57) **ABSTRACT**(76) Inventors: **Ludovic Pierre**, San Francisco, CA  
(US); **Steven Szymanski**, Mountain  
View, CA (US); **Debra Hensgen**,  
Redwood City, CA (US)

Correspondence Address:

**Rory D. Rankin****Conley, Rose & Tayon, P.C.****P.O. Box 398****Austin, TX 78767 (US)**(21) Appl. No.: **09/974,142**(22) Filed: **Oct. 10, 2001****Publication Classification**(51) Int. Cl.<sup>7</sup> ..... **H04N 7/16; H04N 7/00;**  
..... **H04N 11/00**(52) U.S. Cl. .... **725/135; 725/136; 348/461;**  
..... **348/468**

A method and mechanism for delivering and processing relational metadata in a television system. A client is configured to receive a broadcast signal and relational metadata which corresponds to received programming. The received relational metadata includes information which identifies two sets of data and a relationship between them. Upon identifying the data indicated by the relational metadata and determining the indicated relationship, the client is configured to perform a predetermined action which corresponds to the received relational metadata and the identified data sets. The receiver includes, or is coupled to, a mass storage device configured to store received relational metadata and programming. Among the actions which may be automatically performed include replacing the first identified data with the second data on the storage device, deleting the first or second data from the storage device, requesting the second data from a remote location, or copying a previously captured portion of a broadcast signal from a temporary buffer to a mass storage device. Further, utilizing the relational metadata, personalized viewing content and experiences may be created by a viewer.



23/3/50 (Item 50 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00969930 \*\*Image available\*\*

A METHOD AND APPARATUS FOR PERIODICALLY DELIVERING AN OPTIMAL BATCH  
BROADCAST SCHEDULE BASED ON DISTRIBUTED CLIENT FEEDBACK  
PROCEDE ET APPAREIL DE DIFFUSION PERIODIQUE D'UN PROGRAMME DE DIFFUSION DE  
LOT OPTIMAL BASE SUR LE RETOUR CLIENT REPARTI

Patent Applicant/Assignee:

INTEL CORPORATION, 2200 Mission College Boulevard, Santa Clara, CA 95052,  
US, US (Residence), US (Nationality)

Inventor(s):

CONNELLY Jay, 3148 NW 126th Place, Portland, OR 97229, US,

Legal Representative:

MALLIE Michael J (agent), Blakely, Sokoloff, Taylor & Zafman, 7th Floor,  
12400 Wilshire Boulevard, Los Angeles, CA 90025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002104031 A1 20021227 (WO 02104031)

Application: WO 2002US17316 20020531 (PCT/WO US0217316)

Priority Application: US 2001882105 20010615

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 22935

Related  
Doc.  
B5W5ATU





US 20020194607A1

(19) **United States**

(12) **Patent Application Publication**  
**Connelly**

(10) **Pub. No.: US 2002/0194607 A1**

(43) **Pub. Date: Dec. 19, 2002**

(54) **METHOD AND APPARATUS FOR PERIODICALLY DELIVERING AN OPTIMAL BATCH BROADCAST SCHEDULE BASED ON DISTRIBUTED CLIENT FEEDBACK**

(52) **U.S. Cl. .... 725/87; 725/39; 725/46; 725/93**

(57) **ABSTRACT**

(76) **Inventor: Jay H. Connelly, Portland, OR (US)**

**Correspondence Address:**

**R. Alan Burnett**

**BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP**

**Seventh Floor**

**12400 Wilshire Boulevard**

**Los Angeles, CA 90025-1026 (US)**

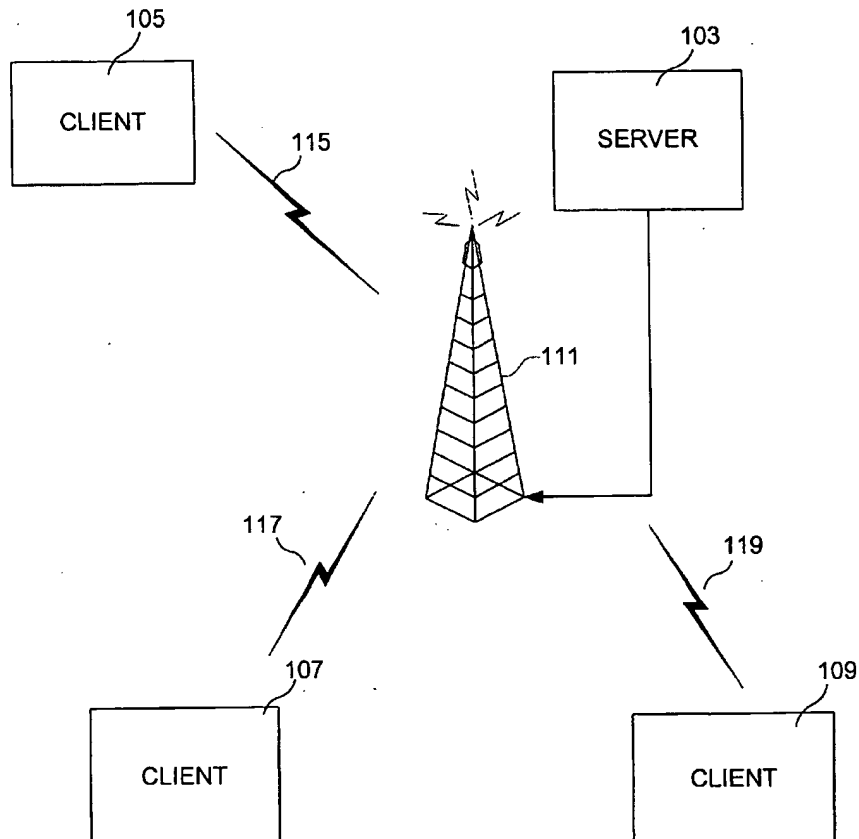
A method and system for periodically deriving an optimal batch broadcast schedule based on client demand feedback data from a distributed set of broadcast clients. The broadcast system includes an operation center that broadcasts meta-data to a plurality of client systems. The meta-data describes a plurality of pieces of content that are in consideration for upcoming broadcasts by the server. Each client receives the broadcasted meta-data from and sends back a set of client demand feedback data to the operations center, wherein the user feedback data reflects a client's interest level in at least a portion of the pieces of content. The feedback data, which typically may include ratings and/or relative rankings, may be user-generated, automatically-generated, or a combination of the two. The system then send a batch of content based on an aggregation of the feedback data in combination with available broadcast bandwidth and broadcast schedule window.

(21) **Appl. No.: 09/882,105**

(22) **Filed: Jun. 15, 2001**

**Publication Classification**

(51) **Int. Cl.<sup>7</sup> ..... G06F 3/00; H04N 5/445; G06F 13/00; H04N 7/173**



23/3/51 (Item 51 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00969929 \*\*Image available\*\*

**METHOD AND APPARATUS FOR DETERMINING BROADCAST SCHEDULE BASED ON MOST  
RECENT CLIENT DEMAND FEEDBACK**

**PROCEDE ET APPAREIL PERMETTANT DE DETERMINER UN PROGRAMME DE DIFFUSION SUR  
LA BASE DES EXIGENCES LES PLUS RECENTES DES CLIENTS**

Patent Applicant/Assignee:

INTEL CORPORATION, (a Delaware Corporation), 2200 Mission College  
Boulevard, Santa Clara, CA 95052, US, US (Residence), US (Nationality)

Inventor(s):

CONNELLY Jay, 3148 NW 126th Place, Portland, OR 97229, US,

Legal Representative:

MALLIE Michael J (agent), Blakely, Sokoloff, Taylor & Zafman, 12400  
Wilshire Boulevard, 7th Floor, Los Angeles, CA 90025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002104030 A1 20021227 (WO 02104030)

Application: WO 2002US17166 20020531 (PCT/WO US0217166)

Priority Application: US 2001882487 20010615

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 22672

*RELATED  
DOC.  
BENEATH*



US 20020194598A1

(19) **United States**(12) **Patent Application Publication** (10) Pub. No.: **US 2002/0194598 A1**  
Connelly (43) Pub. Date: **Dec. 19, 2002**(54) **METHOD AND APPARATUS FOR  
CONTINUOUSLY AND  
OPPORTUNISTICALLY DRIVING AN  
OPTIMAL BROADCAST SCHEDULE BASED  
ON MOST RECENT CLIENT DEMAND  
FEEDBACK FROM A DISTRIBUTED SET OF  
BROADCAST CLIENTS**

(52) U.S. Cl. .... 725/39

(57) **ABSTRACT**

(76) Inventor: Jay H. Connelly, Portland, OR (US)

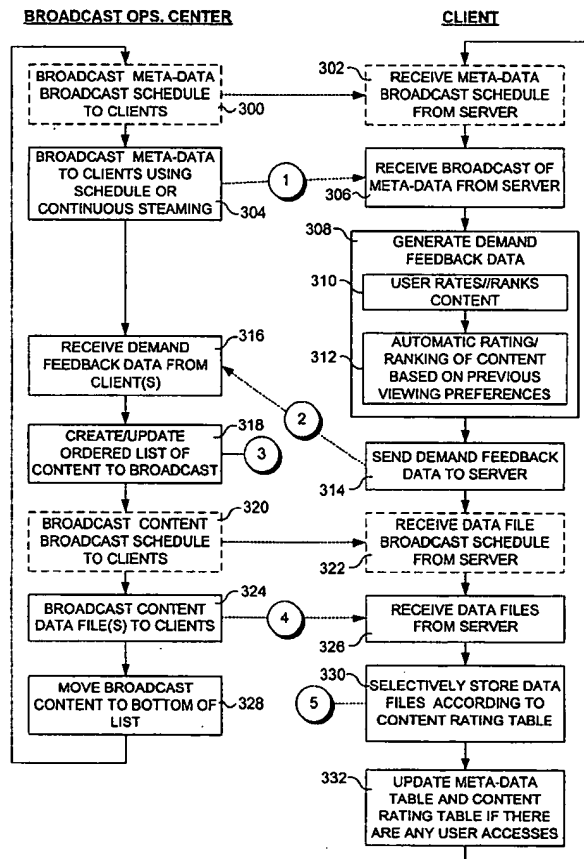
Correspondence Address:  
R. Alan Burnett  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN  
LLP  
Seventh Floor  
12400 Wilshire Boulevard  
Los Angeles, CA 90025-1026 (US)

(21) Appl. No.: 09/882,487

(22) Filed: Jun. 15, 2001

**Publication Classification**(51) Int. Cl.<sup>7</sup> ..... G06F 3/00

A broadcast method and system for continuously and opportunistically driving an optimal broadcast schedule based on most recent client demand feedback from a distributed set of broadcast clients. The broadcast system includes an operation center that broadcasts meta-data to a plurality of client systems. The meta-data describes a plurality of pieces of content that are in consideration for upcoming broadcasts by the server. Each client receives the broadcasted meta-data from and sends back a set of client demand feedback data to the operations center, wherein the user feedback data reflects a client's interest level in at least a portion of the pieces of content. The feedback data, which typically may include ratings and/or relative rankings, may be user-generated, automatically-generated, or a combination of the two. The system then determines a most opportunistic piece of content to be broadcast based on an aggregation of the client demand feedback data.



23/3/54 (Item 54 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

*Good!*

00945870 \*\*Image available\*\*

**DIGITAL ENTERTAINMENT SERVICE PLATFORM**

**PLATE-FORME DE SERVICES DE DIVERTISSEMENTS NUMERIQUES**

Patent Applicant/Assignee:

INTERTAINER INC, 10950 Washington Boulevard, 3rd Floor, Culver City, CA  
90232-4025, US, US (Residence), US (Nationality)

Inventor(s):

HEADINGS Kevin P, 16000 Sunset Boulevard, Villa 104, Pacific Palisades,  
CA 90272, US,

SCHEIN Steven M, P.O. Box 554, Chino Hills, CA 91709, US,

Legal Representative:

FLESHNER Mark L (et al) (agent), FLESHNER & KIM, LLP., P.O. Box 221200,  
Chantilly, VA 20153-1200, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200280038 A1 20021010 (WO 0280038)

Application: WO 2002US6660 20020326 (PCT/WO US0206660)

Priority Application: US 2001280653 20010330; US 2001947592 20010905

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8920

*FOUR  
RELATED  
DOCS.  
BENEATH*



US 20020143565A1

(19) **United States**(12) **Patent Application Publication**  
Headings et al.

(10) Pub. No.: US 2002/0143565 A1

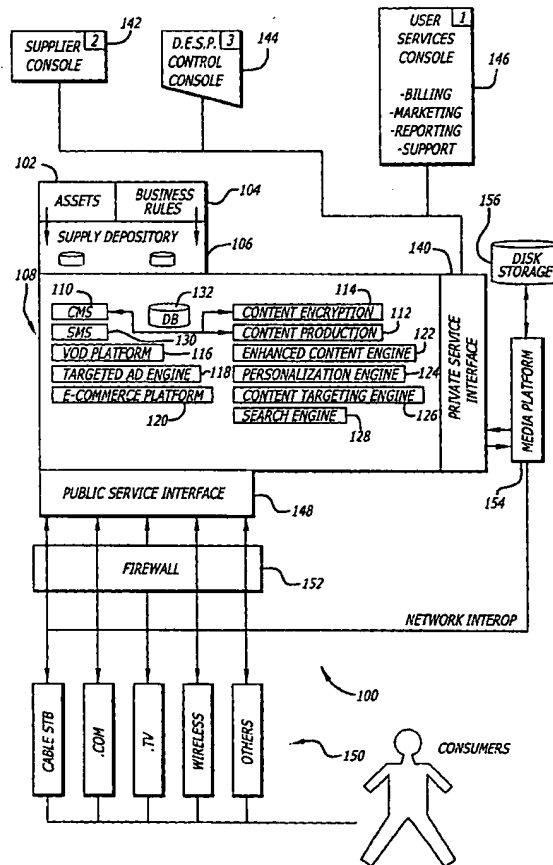
(43) Pub. Date: Oct. 3, 2002

(54) **DIGITAL ENTERTAINMENT SERVICE  
PLATFORM****Publication Classification**(51) Int. Cl.<sup>7</sup> ..... G06F 17/60  
(52) U.S. Cl. .... 705/1(75) Inventors: Kevin P. Headings, Pacific Palisades,  
CA (US); Steven M. Schein, Chino  
Hills, CA (US)(57) **ABSTRACT**Correspondence Address:  
**MARTIN & FERRARO LLP**  
Suite 300  
14500 Avion Parkway  
Chantilly, VA 20151-1101 (US)

The present invention is directed to an open business platform that provides an end-to-end solution for managing, distributing, and/or retailing digital media assets from various content suppliers. In one or more embodiments, the present invention provides an integrated system that permits media content suppliers to deposit their media assets with the system where they are prepared by a content management system for distribution to consumers via a secure distribution system. The media content suppliers may then track and-control the use of their media assets through a subscriber management system for managing consumer accounts, a licensing server for issuing licenses restricting the use of media content, and a royalty reporter for determining and reporting royalties to the various content suppliers.

(73) Assignee: **INTERTAINER, INC.**(21) Appl. No.: **09/947,592**(22) Filed: **Sep. 5, 2001****Related U.S. Application Data**

(60) Provisional application No. 60/280,653, filed on Mar. 30, 2001.



received for that media asset. If the total number of orders has not been reached for the particular media asset, then it is determined whether a specified total monetary amount has been reached in step 510. If the specified total monetary amount has been reached, then steps 506 and 508 are performed. If the specified total monetary amount has not been reached, then steps 504 and 510 are repeated until one of the determinations results in the condition being satisfied.

[0061] As will be appreciated by those skilled in the art, the above steps need not be performed in the described order. Various steps may be re-ordered or omitted, or new steps added. For example, steps 504 and 510 may be reversed in order. Alternatively, either step 504 or step 510 may be omitted. Also, either or both of steps 504 and 510 may be based on a media content offering rather than an individual media asset. Therefore, a content supplier or owner may receive royalties based on the total orders and/or total monetary amount associated with their media asset portfolio used by system 100. Another decision step may be added to or replace either or both of steps 504 and 510 to calculate and report royalties based on an interval of time elapsing. For example, royalties for a particular media asset may be reported on a monthly basis to the media content supplier or owner.

[0062] As shown in FIG. 2, step 600, a billing procedure is initiated on service platform 108 to charge the consumer's account for any purchases made during their use of the entertainment service provided by DESP 100 (e.g., movie or DVD purchase). As shown in FIG. 6, in step 602, a new consumer order is received. In step 604, the consumer account is accessed. In step 606, the consumer order is recorded. In step 608, the system calculates the total amount due on the consumer account. In step 610, the total amount due is compared with a predetermined value. If the total amount due exceeds the predetermined value in step 612, then the amount due is posted in step 614 using the consumer's pre-selected form of payment, for example, a credit card. In addition, accounts may have a billing cycle. If the total amount due has not reached the predetermined spending limit set by the account holder in a predetermined time frame (e.g., end of the billing cycle) then a transaction is created in step 616 for that amount and the amount due is posted using the consumer's pre-selected form of payment in step 614. For example, the preferred billing procedure of the present invention may post a consumer's total amount due to a credit card if the amount due exceeds \$30.00, or if the account has gone more than 30 days without a bill posting.

[0063] As will be appreciated by those skilled in the art, the above steps need not be performed in the described order. Various steps may be re-ordered or omitted, or new steps added. For example, a consumer's order may be recorded and billing determinations made before delivery of the consumer order. Alternatively, the consumer may be charged at the point of sale for each purchase made on the service. One skilled in the art will appreciate that there are many commercially known billing procedures that could be used to obtain payment for consumer purchases.

[0064] As shown in FIG. 2, in step 214, the consumer-requested content is electronically delivered to the consumer (e.g., using streaming or digital download technology). It should be noted that, while it is preferred that steps 210, 212,

600 and 214, occur simultaneously, these steps may differ in order and timing without departing from the broad scope of the present invention. In step 216, the content delivery ends and the consumer is presented with a decision whether to make another selection in step 218. If the consumer decides not to make another selection, then the session ends. If the consumer decides to make another selection, a selection menu request is sent to service platform 108 in step 220. Next, the ad timer is checked for time elapsed in step 222. At this point, the decision is made whether enough time has elapsed after checking the ad timer by comparing a predetermined time before initiating another ad procedure against the time reported on the ad timer in step 224. If enough time has not elapsed, then service platform 108 delivers a selection menu to the consumer. If, however, enough time has elapsed, then another ad procedure is initiated. It should be understood, however, that an ad procedure is only preferred and not necessary to this method. For example, it is possible that a client or other content user may have their own ad procedure that they wish to incorporate within their system. The present invention, however, gives the client or other content user the option to use an ad procedure integrated with content delivery.

[0065] Alternatively, media assets may be offered to the consumer as part of a subscription package, advertising supported package, or other manner based on the preferences of the content supplier and/or client. Service platform 108 may be configured to support one or more business models or other criteria for generating revenue from the media assets.

[0066] Other embodiments of the invention will be apparent to those skilled in the art from consideration of the specification and practice of the invention disclosed herein. It is intended that the specification and examples be considered as exemplary only, with a true scope and spirit of the invention being indicated by the following claims.

What is claimed is:

1. A system for managing and marketing digital media content supplied by a plurality of media content suppliers to a plurality of consumers, the system comprising:

a processor operable to combine media assets supplied by the media content suppliers and metadata to create a media content offering for use by the consumers, said processor having a private service interface adapted to permit the media content suppliers to access the system;

a database for storing the media content offering;

a file repository for storing media content associated with the media content offering; and

a server adapted to distribute media content stored in said file repository.

2. The system of claim 1, wherein the private service interface is adapted to permit the media content suppliers to access information collected by said processor related to the use of media content from the media content offering by at least one of the consumers.

3. The system of claim 2, wherein the information collected includes the number of times a media asset has been used.

4. The system of claim 2, wherein the information collected includes the preferences for each media asset by one or more of the consumers.

5. The system of claim 2, wherein said interface is adapted to permit each of the media content suppliers access to information only related to one or more media assets for which each media content supplier has rights to offer to the consumers.

6. The system of claim 1, wherein said processor is operable to manage consumer-related information, further comprising a database for storing the consumer-related information.

7. The system of claim 6, wherein the consumer-related information includes billing information.

8. The system of claim 6, wherein the consumer-related information includes demographical information.

9. The system of claim 1, wherein said processor is operable to check an accounts database and determine whether the consumer is permitted to use the selected media content.

10. The system of claim 1, wherein said database is adapted to be accessed by a group of the consumers who subscribe to a media content subscription service.

11. The system of claim 1, further comprising a licensing server operable to grant a license to each consumer requesting use of selected media content requiring the license upon a determination that the consumer is permitted to use the selected media content.

12. The system of claim 11, wherein said license includes a decryption key program adapted to decrypt media content that is encrypted.

13. The system of claim 11, wherein said processor is adapted to offer media content to the consumer for a selected interval of time.

14. The system of claim 13, wherein the license permits the consumer to use the selected media content for an interval of time different from the interval of time the media content is being offered.

15. The system of claim 1, further comprising a public service interface adapted to permit communication between said processor and a plurality of different types of client platforms.

16. The system of claim 15, wherein said platforms include any two of cable set top box, Internet web site, direct broadcast satellite, and wireless cell phone.

17. The system of claim 1, wherein said processor is operable to accept media assets remotely deposited by media content suppliers.

18. The system of claim 1, further comprising a content supplier processor operable to run software programmed to generate a graphic user interface for facilitating access by a media content supplier to said private service interface.

19. The system of claim 18, wherein said graphic user interface contains fields for supplying business rules.

20. A method for managing and marketing digital media content supplied by a plurality of media content suppliers to a plurality of consumers, the method comprising the steps of:

providing the plurality of media content suppliers access to a digital media content service platform for permitting the media content suppliers to supply media content to the digital media content platform; and

offering the media content to consumers in accordance with business rules governing the use of the media content.

21. The method of claim 20, further comprising the step of associating metadata with the media content supplied by one of the content suppliers.

22. The method of claim 20, wherein said offering step includes the sub-steps of determining whether a consumer making a request for selected media content is permitted to use the selected media content and issuing a license to the consumer making the request upon a determination that the consumer is permitted to use the selected media content.

23. The method of claim 22, wherein the license issued includes a decryption key program for decrypting media content that is encrypted.

24. The method of claim 22, wherein the license issued expires after a selected interval of time.

25. The method of claim 20, wherein said step of offering the media content includes offering media content that is offered for only a selected interval of time.

26. The method of claim 20, wherein the media content is offered only to consumers of a media content subscription service.

27. The method of claim 20, wherein said step of offering the media content is based at least in part on the demographics associated with the consumers.

28. The method of claim 20, wherein said step of offering the media content is based at least in part on the viewing habits of the consumers.

29. The method of claim 20, wherein the media content is offered over a plurality of different types of client platforms.

30. The method of claim 29, wherein the platforms include any two of cable set top box, Internet web site, direct broadcast satellite, and wireless cell phone.

31. The method of claim 20, further comprising the steps of collecting information related to the use of the media content by the consumers, and providing to at least one of the media content suppliers information related to the use of media content supplied by the media content supplier.

32. The method of claim 31, wherein said providing step includes providing a number of times the media content was requested by consumers.

33. The method of claim 31, further comprising the step of determining an amount due to the content supplier based on information collected in said collecting step.

34. The method of claim 33, wherein said determination step is performed after a selected amount of requests is collected.

35. The method of claim 31, wherein the information includes a number of requests collected during a selected interval of time.

36. The method of claim 31, further comprising the step of providing to at least one content retailer information related to the use of media content supplied by the media content suppliers.

37. The method of claim 20, wherein said step of providing the plurality of media content suppliers access to the digital media content service platform includes the sub-steps of generating a graphic user interface and accepting media assets from the content suppliers through the graphic user interface.

38. The method of claim 20, further comprising the step of storing the media content supplied by the media content suppliers on a database

(3)

39. A method for providing digital media content services to a plurality of media content suppliers, the method comprising the steps of:

providing a digital media content service platform operable to manage and distribute media content to a plurality of consumers in accordance with business rules supplied by media content suppliers; and

providing a plurality of media content suppliers access to the digital media content service platform for permitting the media content suppliers to directly supply media content to the digital media content platform.

40. The method of claim 39, further comprising the step of providing a plurality of media content retailers access to the digital media content service platform.

41. The method of claim 39, further comprising the step of providing the plurality of media content suppliers targeted advertising services.

42. The method of claim 39, further comprising the step of providing the plurality of media content suppliers the

services for combining media assets supplied by the media content suppliers with metadata created within the digital media content platform.

43. The method of claim 39, further comprising the step of providing the plurality of media content suppliers services for tracking consumer preferences for media content.

44. The method of claim 39, further comprising the step of providing the plurality of media content suppliers services for encrypting media content.

45. The method of claim 39, further comprising the step of providing the plurality of media content suppliers services for determining an amount due associated with the use of media content supplied by the media content suppliers.

46. The method of claim 39, further comprising the step of providing the plurality of media content suppliers services for distributing media content supplied by the media content suppliers in accordance with business rules provided by the media content suppliers.

\* \* \* \* \*

(4)



23/3/62 (Item 62 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00879263 \*\*Image available\*\*

**MULTIPLE CONTENT SUPPLIER VIDEO ASSET SCHEDULING**

**ORDONNANCEMENT D'ACTIF VIDEO PAR FOURNISSEUR DE CONTENUS MULTIPLES**

Patent Applicant/Assignee:

DIVA SYSTEMS CORPORATION, 800 Saginaw Drive, Redwood City, CA 94063, US,  
US (Residence), US (Nationality)

Inventor(s):

GOODE Christopher W B, 722 Creek Drive, Menlo Park, CA 94025, US,

Legal Representative:

MOSER Raymond R Jr (et al) (agent), Thomason, Moser & Patterson, LLP, 595  
Shrewsbury Avenue, Suite 100, Shrewsbury, NJ 07702, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200213542 A1 20020214 (WO 0213542)

Application: WO 2001US24624 20010806 (PCT/WO US0124624)

Priority Application: US 2000633197 20000807

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 6167

*FIVE  
RELATED  
DOCS.  
BENEATH*

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 February 2002 (14.02.2002)

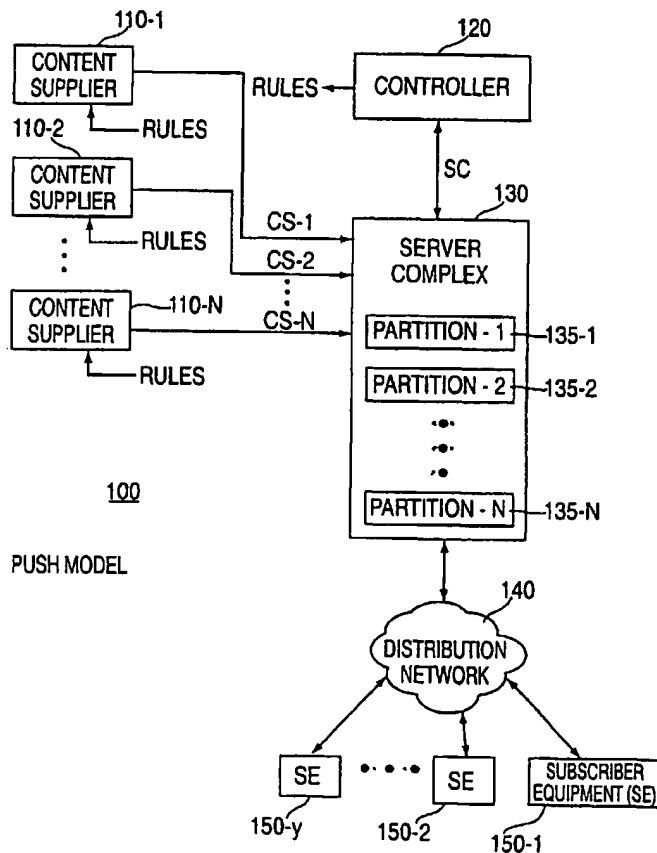
PCT

(10) International Publication Number  
WO 02/13542 A1

- (51) International Patent Classification<sup>7</sup>: H04N 9/00, 7/16, 7/173 (72) Inventor: GOODE, Christopher, W., B.; 722 Creek Drive, Menlo Park, CA 94025 (US).
- (21) International Application Number: PCT/US01/24624 (74) Agents: MOSER, Raymond, R., Jr. et al.; Thomason, Moser & Patterson, LLP, 595 Shrewsbury Avenue, Suite 100, Shrewsbury, NJ 07702 (US).
- (22) International Filing Date: 6 August 2001 (06.08.2001)
- (25) Filing Language: English (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (26) Publication Language: English (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
- (30) Priority Data: 09/633,197 7 August 2000 (07.08.2000) US
- (71) Applicant: DIVA SYSTEMS CORPORATION [US/US]; 800 Saginaw Drive, Redwood City, CA 94063 (US).

[Continued on next page]

(54) Title: MULTIPLE CONTENT SUPPLIER VIDEO ASSET SCHEDULING



(57) Abstract: An apparatus and method for allocating management functions within an interactive information distribution system between service providers and content suppliers (110) whereby content suppliers (110) lease respective portions of available resources within the service provider and manage content provided to subscribers equipment (150) from said leased resources.

WO 02/13542 A1

## WHAT IS CLAIMED IS:

1. A method, comprising the steps of:  
establishing a resource lease with each of at least one content  
5 provider, each content provider storing content within said leased resource;  
fulfilling subscriber requests for available content;  
generating usage statistics;  
providing said usage statistics to said at least one content provider;  
and  
10 adjusting the content stored in said leased resource according to said  
at least one content provider.
2. The method of claim 1, further comprising the steps of:  
generating service-centric data; and  
15 adapting service operation according to said usage statistics and said  
service-centric data.
3. The method of claim 1, further comprising the steps of:  
generating content-centric data; and  
20 providing said content-centric data to said at least one content  
provider.
4. The method of claim 1, further comprising the step of:  
remitting compensation to said at least one content provider in  
25 response to said usage statistics.
5. The method of claim 4, wherein said remitted compensation is offset  
by the value of said lease.
- 30 6. The method of claim 1, wherein said leased resource is adapted in  
response to said usage statistics.
7. The method of claim 6, wherein said leased resource comprises a  
memory resource that is increased or decreased in response to said usage  
35 statistics.

(2)

8. A method, comprising the steps of:  
assigning to each of a plurality of content providers, content  
management responsibilities for respective service provider resources;  
5 fulfilling subscriber requests for available content;  
generating usage statistics and providing said usage statistics to said  
at least one content provider; and  
adjusting, in response to information provided by said content  
providers, content stored within said respective service provider resources.
- 10 9. The method of claim 8, further comprising the steps of:  
generating service-centric data; and  
adapting service operating according to said usage statistics and said  
service-centric data.
- 15 10. The method of claim 8, further comprising the steps of:  
generating content-centric data; and  
providing said content-centric data to said at least one content  
provider.
- 20 11. The method of claim 8, further comprising the step of:  
remitting compensation to said at least one content provider in  
response to said usage statistics.
- 25 12. The method of claim 10, wherein said remitted compensation is offset  
by the value of said lease.
13. Apparatus, comprising:  
a controller, for distributing video assets; and  
30 a server complex comprising a plurality of partitions, each of said  
partitions storing video assets provided by a respective content suppliers;  
said content suppliers adapting content, including video assets, stored  
in said respective partitions in response to usage data provided by said  
controller.
- 35

(3)

14. The apparatus of claim 13, wherein said content suppliers provision respective server complex partitions according to rules defined by said controller.
- 5 15. The apparatus of claim 14, wherein said rules define at least one of a navigation parameter, a promotion parameter and a packaging parameter of said video assets provided by said content suppliers.
16. The apparatus of claim 13, wherein said server complex partitions are  
10 leased by said content suppliers.
17. The apparatus of claim 13, wherein said server complex partitions are auctioned to said content suppliers.
- 15 18. The apparatus of claim 13, wherein:  
said content suppliers adapt the content stored in the respective partitions in response to content-centric data provided by said controller.
19. The apparatus of claim 13, wherein each of said plurality of partitions  
20 is responsively increased or decreased in size in response to said usage data.
20. In an interactive information distribution system wherein information provider equipment transmits video assets to subscribers via a distribution network, information provider apparatus comprising:
- 25 a server complex, for storing video assets received from content suppliers and transmitting said video assets in response to a control signal; and  
a controller, for causing said server complex to transmit said video assets in response to a received request for said video assets, for interacting  
30 with content suppliers via a data channel, and for determining an appropriate list of available video assets based upon at least one of subscriber usage statistics, content-centric data and service-centric data.
21. The apparatus of claim 20, further comprising:

a content uplink, for receiving content streams from each of said plurality of content suppliers and responsively providing said content streams to said server complex.

(5)

23/3/93 (Item 93 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00783673 \*\*Image available\*\*

**VIDEO DISTRIBUTION SYSTEM AND METHOD  
PROCEDE ET SYSTEME DE DISTRIBUTION VIDEO**

Patent Applicant/Assignee:

COMMERCE TV CORPORATION, 325 Wood Road, Braintree, MA 02184, US, US  
(Residence), US (Nationality)

Inventor(s):

KAY Matthew W, 8 Charles Everett Way, Hingham, MA 02043, US,  
LAUGHLIN Matthew J, 228 River Street, Norwell, MA 02061, US,  
CAMPBELL Colin P, 60 Robinwood Road, Norwood, MA 02062, US,

Legal Representative:

STADNICKI Alfred (agent), Fifth floor, 1146 Nineteenth Street, NW,  
Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117256 A1 20010308 (WO 0117256)

Application: WO 2000US23563 20000828 (PCT/WO US0023563)

Priority Application: US 99384182 19990827; US 2000644890 20000818

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AU CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 8735

*FIVE  
RELATED  
DOCS.  
BENEATH*

6/9/2005, EAST Version: 2.0.1.4



**In the claims:****1. A broadcast distribution system, comprising:**

a broadcast station configured to broadcast information, including video programming and first data related to a product; and

a plurality of user stations, each configured to receive the broadcast information and to transmit a product related request based on a user input responsive to the received first product related data;

wherein the broadcast station is further configured to receive the transmitted product related request, and, in response, to transmit second data related to the product to the user station from which the product related request was transmitted.

**2. A system according to claim 1, wherein the broadcast station is further configured to further transmit the received product related request, and further comprising:**

a control station configured (i) to transmit the first and the second product related data to the broadcast station, and (ii) to receive and store the further transmitted product related request.

**3. A system according to claim 1, further comprising:**

a high priority queue configured to queue the product related request received from a first of the plurality of user stations;

a low priority queue, configured to queue the product related request received from a second of the plurality of user stations;

wherein the broadcast station is further configured to transmit the second product related data in response to the product related request queued in the high priority queue within a first time period after receipt of that request, and to transmit the second product related data in response to the product related request queued in the low priority queue within a second time period after receipt of that request, the second time period being longer than the first time period.

4. A system according to claim 3, wherein:

the product related request received from the first user station is a request to purchase the product; and

the product related request received from the second user station is a request for information regarding the product.

5. A system according to claim 3, wherein:

the high priority queue is a real time queue;

the low priority queue is a batch queue.

6. A system according to claim 3, wherein:

each of the plurality of user stations is further configured to generate the product related request so as to include information indicative of response priority; and

the broadcast station is further configured to queue the product related request received from the first and the second user stations in the high and the low priority queues based on the indicated response priority.

7. A system according to claim 1, further comprising:

a database storing the first and the second product related data;

a first server configured to direct the broadcasting of the first product related data and the transmission of the second product related data; and

a second server configured to retrieve the stored second product related data associated with the first product related data responsive to the first product related request;

wherein the transmitted second product related data is the retrieved second product related data.

8. A system according to claim 1, wherein the product is associated with the video programming.

9. A system according to claim 1, wherein each of the plurality of user stations includes a television set top box.

10. A system according to claim 1, wherein:

each of the plurality of user stations is further configured to be tunable to a broadcast channel to thereby receive the broadcast information and the second product related data transmitted to it.

11. A system according to claim 1, wherein:

the broadcast station is further configured to transmit the second product related data via an out-of-band data path; and

each of the plurality of user stations is further configured to transmit the product related request and receive the second product related data, via the out-of-band data path.

12. A system according to claim 11, wherein:

the broadcast station is further configured to transmit an executable application to each of the plurality of user stations via an in-band data path; and

each of the plurality of user stations includes a display, and is further configured to receive the transmitted application via the in-band data path, and execute the received application to transmit the product related request and display the second product related data.

13. A system according to claim 1, wherein:

the first product related information directs a display of an icon indicative of the availability of the second product related information; and

the second product related information is at least one of (i) information regarding at least one attribute of the product itself and (ii) information regarding purchase of the product.

14. A system according to claim 1, wherein:

the first product related information directs a display of icon indicative of the availability of the second product related information; and

23/3/96 (Item 96 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00768026 \*\*Image available\*\*

**METHOD AND SYSTEM FOR A VIDEO-ON-DEMAND-RELATED INTERACTIVE DISPLAY WITHIN  
AN INTERACTIVE TELEVISION APPLICATION**

**PROCEDE ET SYSTEME POUR UN AFFICHAGE INTERACTIF ASSOCIE A UNE VIDEO A LA  
DEMANDE DANS UNE APPLICATION DE TELEVISION INTERACTIVE**

Patent Applicant/Assignee:

UNITED VIDEO PROPERTIES INC, 7140 South Lewis Avenue, Tulsa, OK 74136, US  
, US (Residence), US (Nationality)

Inventor(s):

MCCOY Robert H, 25262 E. Rosewood, Broken Arrow, OK 74014, US

LUMLEY Daniel I, 12302 E. 79th Street, Owasso, OK 74055, US

DRUMMOND Bryan Mitchell, 7209 S. 228 E. Avenue, Broken Arrow, OK 74014,  
US

DEWEESE Toby, 4721 East 87th Street, Tulsa, OK 74137, US

Legal Representative:

PIERRI Margaret A, Fish & Neave, 1251 Avenue of the Americas, New York,  
NY 10020, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200101689 A1 20010104 (WO 0101689)

Application: WO 2000US17839 20000628 (PCT/WO US0017839)

Priority Application: US 99141575 19990629

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10447

*Two  
RELATED  
docs,  
BENEATH*

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
4 January 2001 (04.01.2001)

PCT

(10) International Publication Number  
**WO 01/01689 A1**

(51) International Patent Classification<sup>7</sup>: **H04N 7/173**

(74) Agents: **PIERRI, Margaret, A. et al.**; Fish & Neave, 1251 Avenue of the Americas, New York, NY 10020 (US).

(21) International Application Number: **PCT/US00/17839**

(22) International Filing Date: **28 June 2000 (28.06.2000)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
**60/141,575** **29 June 1999 (29.06.1999)** **US**

(71) Applicant: **UNITED VIDEO PROPERTIES, INC.**  
[US/US]; 7140 South Lewis Avenue, Tulsa, OK 74136 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

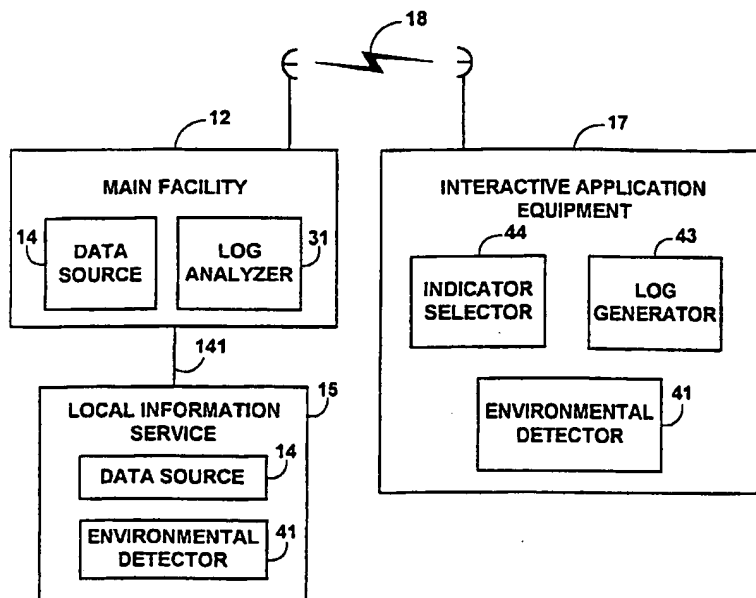
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors: **MCCOY, Robert, H.**; 25262 E. Rosewood, Broken Arrow, OK 74014 (US). **LUMLEY, Daniel, I.**; 12302 E. 79th Street, Owasso, OK 74055 (US). **DRUMMOND, Bryan, Mitchell**; 7209 S. 228 E. Avenue, Broken Arrow, OK 74014 (US). **DEWEESE, Toby**; 4721 East 87th Street, Tulsa, OK 74137 (US).

**Published:**  
— *With international search report.*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **METHOD AND SYSTEM FOR A VIDEO-ON-DEMAND-RELATED INTERACTIVE DISPLAY WITHIN AN INTERACTIVE TELEVISION APPLICATION**



(57) Abstract: Systems and methods for providing an interactive display having indicators of video-on-demand programs are described. The systems and methods select indicators for inclusion in the interactive display according to a promotional selection algorithm.

- 11 -

processing, and communications circuitry or devices for monitoring the indicator selection process or other processes carried out by interactive application equipment 17. Interactive application equipment 17 may provide a selection log to main facility 12. The selection log may list the actual indications (e.g., promotions, listings, etc.) that are included by the interactive application within the interactive display. Logging the indicators that are actually displayed may be useful when, for example, indicators are selected for display but are unavailable during screen generation. This may occur when, for example, indicators are received corrupted such as when link 18 is very noisy. In another suitable approach, the selection log may log what is selected, or a combination of these approaches may be used. Log analyzer 31 may also monitor changes to the selection log over communications link 18 or another communications link to observe the selecting of indicators at about the same time they are selected. The selection log may be used by log analyzer 31 to modify the promotional philosophy used by interactive application equipment 17 in order to maximize the probability of achieving the desired results for the system, or to test how changes to a promotional philosophy might affect indicator selection.

Interactive application equipment 17 may include indicator selector 44, log system 43, and environmental detector 41. Indicator selector 44 may be any combination of hardware and software suitable for generating a playlist, set, database, or other data structure that either indicates or includes indicators of video-on-demand selections for presentation in the interactive display according to the chosen selection

(2)

23/3/116 (Item 116 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00440650 \*\*Image available\*\*

**METHOD AND SYSTEM FOR TRACKING NETWORK USE**

**PROCEDE ET SYSTEME DE SUIVI DE L'UTILISATION DES RESEAUX**

Patent Applicant/Assignee:

BELLSOUTH CORPORATION,

Inventor(s):

GRAUCH Edward Rowland,

BATTEN John Christopher,

DANNER Fred Thomas III,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9831114 A1 19980716

Application: WO 98US91 19980105 (PCT/WO US9800091)

Priority Application: US 97779306 19970106

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AU BA BB BG BR CA CN CU CZ EE GE GM GW HU ID IL IS JP KP KR LC LK LR

LT LV MG MK MN MX NO NZ PL RO SG SI SK SL TR TT UA UZ VN YU ZW GH GM KE

LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB

GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 10469

SIX  
RELATED  
DOCS.  
BENSEATH





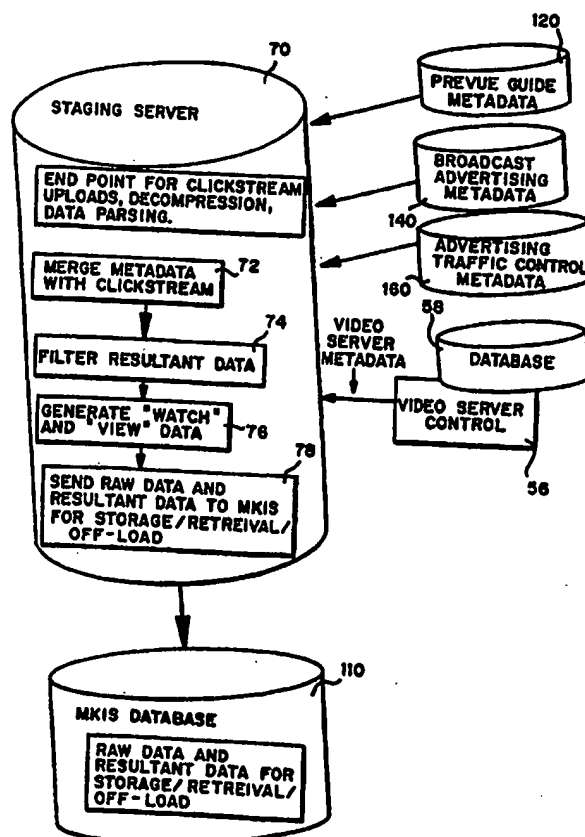
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>H04H 9/00, H04N 7/173</b>		A1	(11) International Publication Number: <b>WO 98/31114</b>
			(43) International Publication Date: 16 July 1998 (16.07.98)
(21) International Application Number: PCT/US98/00091		(81) Designated States: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GM, GW, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 5 January 1998 (05.01.98)			
(30) Priority Data: 08/779,306 6 January 1997 (06.01.97) US			
(71) Applicant: BELLSOUTH CORPORATION [US/US]; 1155 Peachtree Street, N.E., Atlanta, GA 30309-3610 (US).		Published With international search report.	
(72) Inventors: GRAUCH, Edward, Rowland; 825 Kings Court, Atlanta, GA 30306 (US). BATTEN, John, Christopher; 720 Cambridge Crest Lane, Alpharetta, GA 30202 (US). DANNER, Fred, Thomas, III; 2850 Lakewind Court, Alpharetta, GA 30202 (US).			
(74) Agents: PRATT, John, S. et al.; Kilpatrick Stockton LLP, Suite 2800, 1100 Peachtree Street, Atlanta, GA 30309-4530 (US).			

(54) Title: METHOD AND SYSTEM FOR TRACKING NETWORK USE

## (57) Abstract

A method and system for tracking subscriber use of a network, such as an interactive media delivery network, which delivers programming to set top boxes coupled to a display device is disclosed. The system tracks events, including any change in status of a set top box caused by a change in programming or channel or a subscriber's activation and interaction with a particular interactive services application. Each application forms an event record comprising the application ID, event and time stamp. Collected event records are buffered, compressed, formed into packets and transmitted to a merge processor that combines event records with content data that describes the programming content distributed throughout the network. The event records and content data are merged to form event timelines for each subscriber's set top box that show subscriber activity or programming played to a subscriber over a selected time period.



What is claimed is:

- 1     1.           A method for collecting information about viewing habits of  
2     subscribers to a media delivery network for delivering programming to  
3     numerous set top boxes, each capable of supporting different applications  
4     invoked and controlled by subscriber commands, the method comprising the  
5     steps of:
  - 6           a)     programming each application to identify selected  
7                   subscriber commands of interest;
  - 8           b)     determining an application identifier corresponding to a  
9                   particular application to which a selected command is  
10                  addressed; and
  - 11          c)     creating an event record comprising:
    - 12                  (1)     the application identifier;
    - 13                  (2)     an identification code corresponding to the  
14                          selected command; and
    - 15                  (3)     a time stamp.
- 1     2.           A method according to claim 1 further comprising the step of  
2     accessing a table in order to determine the identification code for the  
3     selected command.
- 1     3.           A method according to claim 2 further comprising the step of  
2     accessing a table in order to determine the application identifier.
- 1     4.           A method according to claim 2 further comprising the steps of  
2     repeating steps a through c to collect a plurality of event records and  
3     buffering the plurality of event records.
- 1     5.           A method according to claim 4 further comprising the step of  
2     forwarding the plurality of event records to a merge processor.

1           6.     A method according to claim 5 further comprising the step of  
2     coupling to the merge processor a data source selected from the group  
3     consisting of: broadcast identification information, interactive application use  
4     information, national advertising information and local advertising  
5     information.

1           7.     The method according to claim 1 in which the selected  
2     commands of interest are selected from the group consisting of: channel  
3     change commands, volume change commands, VCR commands,  
4     application invocation commands and application control commands.

1           8.     A system for collecting and processing information about  
2     subscribers' selection and use of programming distributed over a media  
3     delivery network, the system comprising:  
4           a)     a merge processor coupled via means for communication to  
5                b)     a plurality of set top boxes, each comprising a  
6                    processor for (1) collecting a plurality of event records  
7                    that describe selected commands from a subscriber to a  
8                    particular set top box and (2) transmitting event records  
9                    to the merge processor;  
10           c)     wherein the merge processor forms an event timeline  
11                   describing a subscriber's selection of distributed  
12                   programming for a discrete time period by merging the  
13                   event records with programming data describing  
14                   programming available via the media delivery system.

1           9.     A system according to claim 8 wherein the programming data  
2     comprises data collected from at least two sources selected from the group  
3     consisting of: a broadcasting schedule source, a national advertising

4 schedule source, a local advertising schedule source and an interactive  
5 application use schedule source.

1 10. A system according to claim 8 wherein each set top box further  
2 comprises a plurality of applications capable of being invoked by a  
3 subscriber.

1 11. A system according to claim 10 wherein each event record  
2 comprises: (1) an application identifier corresponding to the application  
3 associated with the recorded event; (2) an event identification code; and (3)  
4 a time stamp associated with the initiation of the event.

1 12. A system according to claim 11 wherein each application  
2 creates an event record upon detection of selected commands from the  
3 subscriber.

1 13. A system according to claim 8 further comprising a buffer for  
2 storing the event records before transmission.

1 14. A system according to claim 8 wherein the merge processor  
2 forms an event timeline for each of the plurality of set top boxes.

1 15. A system according to claim 14 further comprising an analysis  
2 engine for correlating the event timelines with demographics information  
3 describing the subscribers.

1 16. A method for journaling information about subscriber use of a  
2 media delivery network for delivering programming and a merge processor  
3 for analyzing the resulting journaled information, the method comprising the  
4 steps of:

(4)

- 5 a) collecting information about a plurality of subscribers'  
6 use of a media delivery network, the collecting step  
7 comprising:  
8 i) identifying commands of interest from each  
9 subscriber;  
10 ii) forming event records that record at least the  
11 commands of interest and a time associated with  
12 the command;  
13 b) transmitting event records to the merge processor;  
14 c) merging the event records with data describing the  
15 programming delivered over the media network in order  
16 to form event timelines, each of which describes the  
17 programming selected by a particular subscriber over a  
18 discrete time period.

1 17. A method according to claim 16 wherein the identifying step  
2 comprises the step of correlating each command of interest with a global  
3 table comprising identification codes.

1 18. A method according to claim 16 further comprising the step of  
2 filtering the event timelines in order to classify subscribers' viewing patterns  
3 into at least two categories.

1 19. A method according to claim 18 wherein the first category  
2 comprises programming watched by a subscriber for greater than a selected  
3 threshold percent of the total program length.

1 20. A system for determining the viewing habits of subscribers to a  
2 media delivery network for delivering programming, the system comprising:

(S)

- 3           a)     a collector for collecting event records describing subscribers'  
4                   selection and use of programming;  
5           b)     means, coupled to the collector, for communicating event  
6                   records to  
7           c)     a merge processor for processing the event records to form for  
8                   a selected subscriber an event timeline describing the  
9                   programming delivered to a selected subscriber over a  
10                  particular time period via the media delivery network;  
11          d)     means for storing demographics information about selected  
12                  groups of subscribers; and  
13          e)     wherein the merge processor forms a plurality of event  
14                  timelines and correlates the demographics information with the  
15                  event timelines.

1           21.    A system according to claim 20 in which the merge processor  
2   applies filtering criteria to the event records to determine the programming  
3   watched by a subscriber for greater than a selected percent of the  
4   programming.

1           22.    A system according to claim 21 in which the collector is  
2   deployed upon a set top box that is associated with a display device for  
3   displaying delivered programming.

1           23.    A system according to claim 22 in which the subscriber controls  
2   the set top box via a remote device in order to invoke and run a variety of  
3   applications and the collector forms event records by:

- 4                  a)     identifying a code that corresponds to a command of  
5                          interest entered by a selected subscriber; and  
6                  b)     storing in a buffer, associated with the collector, an  
7                          event record comprising (1) the code corresponding to  
8                          the command; and (2) a time stamp.

23/3/120 (Item 120 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00383948 \*\*Image available\*\*

**SUBSCRIBER MANAGEMENT SYSTEM AND METHOD**  
**SYSTEME DE GESTION DES LIGNES D'ABONNES, ET PROCEDE ASSOCIE**

Patent Applicant/Assignee:  
TELE-COMMUNICATIONS INC,

Inventor(s):  
RIERDEN William,  
GOLLOB David J,  
LOGAN James R,  
DESHAZER Kurt A,  
STODGHILL Scott,  
MUNSIL Wesley E,  
MARUSIN Mark,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9724691 A1 19970710

Application: WO 96US20125 19961224 (PCT/WO US9620125)

Priority Application: US 95581732 19951229; US 96714373 19960916

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IS  
JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN.MW MX NO NZ PL PT RO  
RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM AZ BY KG  
KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ  
CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 20862

*RELATED  
Doc.  
BENEATH*



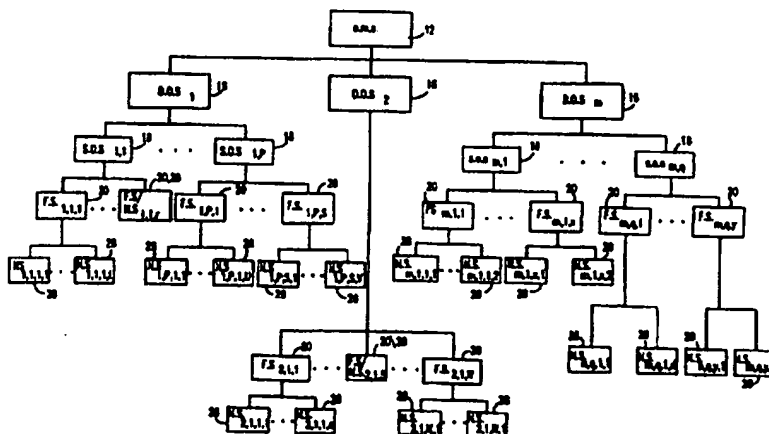
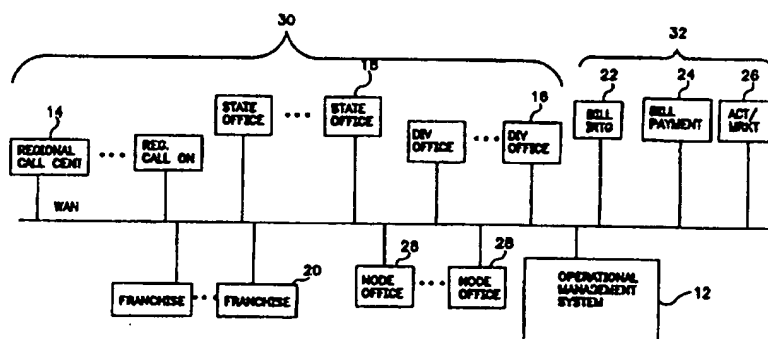
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>G06F 153:00</b>		A1	(11) International Publication Number: <b>WO 97/24691</b>
			(43) International Publication Date: 10 July 1997 (10.07.97)
(21) International Application Number: <b>PCT/US96/20125</b>		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 24 December 1996 (24.12.96)			
(30) Priority Data: 08/581,732 29 December 1995 (29.12.95) US 08/714,373 16 September 1996 (16.09.96) US			
(71) Applicant: TELE-COMMUNICATIONS, INC. [US/US]; 5619 DTC Parkway, Englewood, CO 80111 (US).			
(72) Inventors: RIERDEN, William; 6235 Sanders, Evergreen, CO 80439 (US). GOLLOB, David, J.; 6542 E. Milstone Place, Highland Ranch, CO 80126 (US). LOGAN, James, R.; 7980 East Windcrest Row, Parker, CO 80134 (US). DESHAZER, Kurt, A.; 7376 South Flower Street, Littleton, CO 80123 (US). STODGHILL, Scott; 81 Granite Way, Evergreen, CO 80439 (US). MUNSIL, Wesley, E.; 5890 Bestview Way, Colorado Springs, CO 80918 (US). MARUSIN, Mark; 8444 South Woody Way, Highlands Ranch, CO 80126 (US).			
(74) Agents: GATTO, James, G. et al.; Baker & Botts, L.L.P., The Warner, 1299 Pennsylvania Avenue, N.W., Washington, DC 20004 (US).		Published With international search report.	

(54) Title: SUBSCRIBER MANAGEMENT SYSTEM AND METHOD

## (57) Abstract

A system and method for allowing users to coordinate, track and manage business tasks necessary for delivering products and services. The system comprises an operational management system (12), hierarchical systems (30), and support system (32) connected over a wide area network (100). Hierarchical systems (30) comprise a plurality of divisional office systems (16), a plurality of state office systems (18), a plurality of franchise systems (20), and a plurality of node office systems (28), distributed over the wide area network (100).





Set	Items	Description
S1	34903	VOD OR VIDEO(2W)DEMAND OR PAYPERVIEW? OR PAY()PER()VIEW? OR PAYPER()VIEW? OR ONDEMAND? OR ON()DEMAND
S2	281984	MSO OR (NETWORK? OR MULTIP? OR MULTIT? OR PLURAL? OR SEVERAL? OR MORE(2W)ONE OR GROUP? OR COLLECTION? OR ASSEMBL?) (3N) (- PROVIDER? OR DISTRIB? OR OPERATOR? OR SATELLITE? OR SYSTEM? - (2N) (DISTRIB? OR PROVID? OR OPERAT?))
S3	650613	MULTIMEDIA? OR MULTI()MEDIA? OR AUDIOVISUAL? OR AUDIO()VISUAL? OR MOVIE? OR TV OR TELEVISION? OR TVBROADCAST? OR MULTICAST? OR VIDEOGAME? OR VIDEO()GAME?
S4	280417	INTERACTIV? OR INTER()ACTIV?
S5	548534	CLOSE?()LOOP? OR CLOSEDLOOP? OR CLOSELOOP? OR FEEDBACK? OR FEED?()BACK?
S6	1017	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (UPLINK? OR UPLOAD? OR UP() (LOAD? OR LINK?))
S7	280511	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (USAGE? OR METADATA? OR META()DATA? OR PRICING? OR PRICE? OR HABIT? ? OR CHARACTERISTIC?)
S8	42094	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (BILLING? OR STOR?()ALLOCAT? OR SCHEDUL? OR SUBSCRI? - OR DATAFILE? OR DATA()FILE? OR FTP OR FILE()TRANSFER()PROTOCOL?)
S9	174956	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (DELIVER? OR TRANSMI? OR DOWNLOAD? OR DOWNLINK? OR DOWN() (LINK? OR LOAD?) OR URL OR ASSET?)
S10	160097	(CREAT? OR PRODUC? OR COMPIL? OR GENERAT?) (5N) (REPORT? OR - SUMMAR? OR RECAP? OR DATABASE? OR DATA()BASE? OR DATAFILE? OR DATA()FILE?)
S11	16844	(S1 OR S3) AND S2
S12	1874	S11 AND S1
S13	304	S12 AND S4
S14	1874	S12:S13
S15	30	S14 AND S5
S16	71	S14 AND S6:S10
S17	100	S15:S16
S18	10	S17 AND PD<20021201
S19	63	S17 AND PY<2003
S20	63	S18:S19
S21	47	RD (unique items)

? show files

File 2:INSPEC 1969-2005/May W5  
(c) 2005 Institution of Electrical Engineers

File 6:NTIS 1964-2005/May W5  
(c) 2005 NTIS, Intl Cpyrght All Rights Res

File 8:EI Compendex(R) 1970-2005/May W5  
(c) 2005 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W1  
(c) 2005 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2005/May  
(c) 2005 ProQuest Info&Learning

File 62:SPIN(R) 1975-2005/Mar W4  
(c) 2005 American Institute of Physics

File 65:Inside Conferences 1993-2005/Jun W1  
(c) 2005 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2005/Apr W3  
(c) 2005 Japan Science and Tech Corp(JST)

File 95:TEME-Technology & Management 1989-2005/May W1

(c) 2005 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May  
(c) 2005 The HW Wilson Co.  
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/Jun 09  
(c) 2005 The Gale Group  
File 144:Pascal 1973-2005/May W5  
(c) 2005 INIST/CNRS  
File 256:TecInfoSource 82-2005/Apr  
(c) 2005 Info.Sources Inc  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
?

21/3,K/42 (Item 3 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2005 INIST/CNRS. All rts. reserv.

13533949 PASCAL No.: 98-0234281

**A novel dynamic caching for hierarchically distributed video - on demand systems**

Multimedia networks : security, displays, terminals, and gateways :  
Dallas TX, 4-5 November 1997

OGO K; MATSUDA C; NISHIMURA K

BOVE V Michael, ed; DERRYBERRY Barbara, ed; HOLLIDAY Cliffors R, ed; LOME Louis, ed; MARKANDEY Vishal, ed; TESCHER Andrew G, ed; VASUDEV Bhaskaran, ed

NTT Human Interface Laboratories, Musashino-shi, Tokyo 180, Japan  
International Society for Optical Engineering, Bellingham WA, United States.

Multimedia networks : security, displays, terminals, and gateways.  
Conference (Dallas TX USA) 1997-11-04

Journal: SPIE proceedings series, 1998 , 3228 135-146

Language: English

Copyright (c) 1998 INIST-CNRS. All rights reserved.

**A novel dynamic caching for hierarchically distributed video - on demand systems**

Multimedia networks : security, displays, terminals, and gateways :  
Dallas TX, 4-5 November 1997

1998

...2 seconds. This mechanism uses Variable-sized-Quantizing-segment-Caching (VQSC) technique derived from an **analysis** of the historical **usage** log data generated by a live- **on - demand** (LOD)-type service experiment and based on the basic techniques used by a time-slot-based multiple-stream **video - on - demand** ( VOD ) server.

English Descriptors: Communication technology; Communication **network** ;  
**Network** architecture; **Distributed system** ; **Video on demand** ;  
**Multimedia**

French Descriptors: Technologie communication; Reseau communication;  
Architecture reseau; Systeme repart; Video a la demande; **Multimedia**

Spanish Descriptors: Tecnologia comunicacion; Red de comunicacion;  
Arquitectura red; Sistema repartido; Video a peticion; **Multimedia**

Set	Items	Description
S1	683862	VOD OR VIDEO(2W)DEMAND OR PAYPERVIEW? OR PAY()PER()VIEW? OR PAYPER()VIEW? OR ONDEMAND? OR ON()DEMAND
S2	2361255	MSO OR (NETWORK? OR MULTIP? OR MULTIT? OR PLURAL? OR SEVERAL? OR MORE(2W)ONE OR GROUP? OR COLLECTION? OR ASSEMBL?) (3N) (- PROVIDER? OR DISTRIBUT? OR OPERATOR? OR SATELLITE? OR SYSTEM? - (2N) (DISTRIB? OR PROVID? OR OPERAT?))
S3	9426857	MULTIMEDIA? OR MULTI()MEDIA? OR AUDIOVISUAL? OR AUDIO()VISUAL? OR MOVIE? OR TV OR TELEVISION? OR TVBROADCAST? OR MULTICAST? OR VIDEOGAME? OR VIDEO()GAME?
S4	2206109	INTERACTIV? OR INTER()ACTIV?
S5	988652	CLOSE?()LOOP? OR CLOSEDLOOP? OR CLOSELOOP? OR FEEDBACK? OR FEED?()BACK?
S6	5823	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (UPLINK? OR UPLOAD? OR UP() (LOAD? OR LINK?))
S7	947416	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (USAGE? OR METADATA? OR META()DATA? OR PRICING? OR PRICE? OR HABIT? ? OR CHARACTERISTIC?)
S8	363124	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (BILLING? OR STOR?()ALLOCAT? OR SCHEDUL? OR SUBSCRI? - OR DATAFILE? OR DATA()FILE? OR FTP OR FILE()TRANSFER()PROTOCOL?)
S9	852344	(TRACK? OR MONITOR? OR CALCULAT? OR ASSESS? OR ASCERTAIN? - OR FOLLOW? OR INVENTORY? OR INVENTORIE? OR ACCOUNTING? OR ANALY?) (5N) (DELIVER? OR TRANSMI? OR DOWNLOAD? OR DOWNLINK? OR DOWN() (LINK? OR LOAD?) OR URL OR ASSET?)
S10	1507406	(CREAT? OR PRODUC? OR COMPIL? OR GENERAT?) (5N) (REPORT? OR - SUMMAR? OR RECAP? OR DATABASE? OR DATA()BASE? OR DATAFILE? OR DATA()FILE?)
S11	688368	(S1 OR S3) AND S2
S12	257865	(S11 AND S1) OR (S11 AND (S1 OR S3) (20N)S2)
S13	915	S12 AND S5 (20N)S1:S3
S14	120684	S12 AND S1
S15	3465	S14 AND S5
S16	3855	S13 OR S15
S17	1792	S16 AND S4
S18	3855	S16:S17
S19	285	S18 AND S6:S10 (20N)S1:S3
S20	35	S13 AND S7:S9 AND (S6 OR S10)
S21	295	S19:S20
S22	246	S21 AND PY<2003
S23	146	RD (unique items)

? show files

File 9:Business & Industry(R) Jul/1994-2005/Jun 10  
(c) 2005 The Gale Group

File 13:BAMP 2005/May W5  
(c) 2005 The Gale Group

File 15:ABI/Inform(R) 1971-2005/Jun 09  
(c) 2005 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2005/Jun 10  
(c) 2005 The Gale Group

File 20:Dialog Global Reporter 1997-2005/Jun 10  
(c) 2005 The Dialog Corp.

File 47:Gale Group Magazine DB(TM) 1959-2005/Jun 10  
(c) 2005 The Gale group

File 75:TGG Management Contents(R) 86-2005/May W5.  
(c) 2005 The Gale Group

File 88:Gale Group Business A.R.T.S. 1976-2005/Jun 10

(c) 2005 The Gale Group  
 File 98:General Sci Abs/Full-Text 1984-2004/Dec  
 (c) 2005 The HW Wilson Co.  
 File 141:Readers Guide 1983-2005/Dec  
 (c) 2005 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2005/Jun 10  
 (c)2005 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 239:Mathsci 1940-2005/Jul  
 (c) 2005 American Mathematical Society  
 File 275:Gale Group Computer DB(TM) 1983-2005/Jun 10  
 (c) 2005 The Gale Group  
 File 369:New Scientist 1994-2005/Apr W4  
 (c) 2005 Reed Business Information Ltd.  
 File 370:Science 1996-1999/Jul W3  
 (c) 1999 AAAS  
 File 484:Periodical Abs Plustext 1986-2005/Jun W1  
 (c) 2005 ProQuest  
 File 553:Wilson Bus. Abs. FullText 1982-2004/Dec  
 (c) 2005 The HW Wilson Co  
 File 610:Business Wire 1999-2005/Jun 09  
 (c) 2005 Business Wire.  
 File 613:PR Newswire 1999-2005/Jun 10  
 (c) 2005 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jun 10  
 (c) 2005 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2005/Jun 09  
 (c) 2005 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2005/Jun 09  
 (c) 2005 San Jose Mercury News  
 File 635:Business Dateline(R) 1985-2005/Jun 09  
 (c) 2005 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 10  
 (c) 2005 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2005/May W4  
 (c) 2005 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2005/Jun W1  
 (c) 2005 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 09  
 (c) 2005 The Dialog Corp.  
 File 810:Business Wire 1986-1999/Feb 28  
 (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc

?

23/3,K/2 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02396995 Supplier Number: 24770930 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
Interactive Television , DM Enabler  
(Targeted iTV advertising and television -based-commerce are expected to  
become critical applications for the over 100 mil TV -viewing households  
in the US)  
Direct, v 13, n 3, p N/A  
March 2001  
DOCUMENT TYPE: Journal ISSN: 1046-4174 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 884

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
Interactive Television , DM Enabler  
(Targeted iTV advertising and television -based-commerce are expected to  
become critical applications for the over 100 mil TV -viewing households  
in the US)

TEXT:

...to reap iTV's benefits

AFTER A rocky incubation period lasting more than two decades, **interactive television** (iTV) is finally coming of age.

For the more than 100 million U.S. TV -viewing households, iTV may ultimately mean ordering pizza, accessing a digital video version of "Dr...

...of high-speed broadband networks propels the maturation of this technology targeted iTV advertising and **television** -based commerce (t-commerce) will emerge as critical applications.

...  
**Interactive television** bears two defining characteristics whose combination may prove potent for direct marketers: two-way communication and addressability.

With the traditional model of broadcast or cable **television** , a network simultaneously transmits the same body of content to many viewers. By contrast, iTV...

...t-commerce applications--allow subscribers to tailor programming to their preferences. Empowered with remote-controlled **interactivity** subscribers can communicate in real time with their iTV service providers to instantly request additional information or respond to on-screen offers.

In the context of **interactive television** , "addressability" refers to the digital identifier that marks every iTV-enabled set-top box. This...

...uniquely tags each viewer's household, registering each remote-control click as the person navigates **interactive** content or makes an on-screen purchase. The sum of this clickstream data yields individual...

...offers to targeted households. This inevitably will lead to better response rates and, if the **television** is in fact the order channel, a complete and dosed response analysis loop.

\* Immediate, personalized viewer response. **Interactive** addressability

enables iTV subscribers to respond instantly to **interactive** offerings by remote control. The rapid, virtually effortless nature of this response channel will increase viewers' propensity for impulse buying while providing marketers with the **feedback** to assess and refine their **interactive** advertising campaigns with a novel degree of responsiveness.

Direct marketers can harness iTV's benefits...

...User profiles. iTV technologies that will be key to responsible aggregation of user data include **video - on - demand**, **interactive** program guides and technologies that allow users to send e-mail and surf the Internet through their **television**. The demonstrated user appeal of **video - on - demand** makes it potentially the most valuable initiative for DMers seeking to better understand their iTV audiences, improve targeting of **interactive** offers and drive higher response rates.

\* **Delivery** and **assessment** of targeted ads. The viewer-specific addressability of **interactive television** is ideally suited for targeted advertising and response analysis. Advertisers can work with iTV providers...

...viewer profiles in a privacy-sensitive manner. This could ensure that iTV subscribers are served **interactive** ads that are more relevant to them than those associated with broadcast media.

\* T-commerce. Consumer familiarity with direct response **television** shopping and infomercials--together with their increasing comfort making online transactions--will speed development of...

...shape development of iTV direct marketing will be increasing public broadband access via upgraded cable **networks** and direct **satellite** services. As **interactive television** deployment rises over the next five years, DMers must consider when and how to position...

...COS.

B-to-C DMers (such as L.L. Bean  
catalogers, DRTV firms) Home Shopping **Network**  
Service **providers** (such as UPS Logistics  
third-party fulfillment West TeleServices  
and teleservices firms)  
Service providers (such...

PRODUCT NAMES: **Television** broadcasting (483300...

... **Television** advertising services (731348)

23/3,K/5 (Item 1 from file: 13)  
DIALOG(R)File 13:BAMP  
(c) 2005 The Gale Group. All rts. reserv.

00725202 Supplier Number: 25917976 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
On - Demand **Services: What Is Exceptional Performance?**  
(With **on - demand** services, value-added services and applications will  
have to be defined, **delivered** , and **tracked** on a per-episode,  
per-transaction, or individual basis)  
Article Author(s): Partee, Sanders  
Telecommunications Americas Edition Telecommunications, v 34, n 12, p 54,64  
December 2000  
DOCUMENT TYPE: Journal ISSN: 0278-4831 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1249

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
On - Demand **Services: What Is Exceptional Performance?**  
(With **on - demand** services, value-added services and applications will  
have to be defined, **delivered** , and **tracked** on a per-episode,  
per-transaction, or individual basis)

TEXT:

...it is quickly becoming the norm for users to hop on-line and order a **movie** or some other **on - demand** , one-time, pay-as-you-go IP service, such as video-conferencing. Both new technology...  
...example, the appropriate metrics to measure video-conferencing are different than those used to evaluate **multicast** streaming services. The metrics will also vary based on the customer's specifications.

QoS needs...

...the company billing for the service, and the ASP.

Given the multivendor nature of IP **networks** , **providers** need to look to application-level QoS. ASPs must develop QoS standards that can be...

...user is pleased with the quality of the service.

Combining service-appropriate metrics with subjective **feedback** will enable service providers to personalize their offerings and establish trust and loyalty-critical success...



23/3,K/32 (Item 23 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00980346 96-29739

**ATM connection and traffic management schemes for multimedia internetworking**

Iwata, A; Mori, N; Ikeda, C; Suzuki, H; Ott, M  
Communications of the ACM v38n2 PP: 72-89 Feb 1995  
ISSN: 0001-0782 JRNL CODE: ACM  
WORD COUNT: 10635

**ATM connection and traffic management schemes for multimedia internetworking**

...DESCRIPTORS: **Multimedia** computer applications

ABSTRACT: The rapid advances being made in microprocessor technology have stimulated significant interest in distributed **multimedia** applications supported by high-speed desktop computers and high-speed **networks**. Examples of **distributed multimedia** applications include **multimedia** database retrieval, distributed **multimedia** documents, and video mail. Due to the large amount of **multimedia** traffic for **audio / visual** applications, these applications require high-speed networks to retrieve data in real time, instead of huge local disk storage. Because of the real-time characteristics of **audio / visual** applications, networks must guarantee stringent quality of service (QOS), such as for throughput, delay, and...

...terminal than shared media networks. Several technical issues must be considered for the realization of **multimedia** applications that fully utilize such ATM capabilities. ...

TEXT: Because of the real-time characteristics of **audio / visual** applications, networks must guarantee stringent quality of service (OS), such as for throughput, delay, and...

...already been provided by ATM switches. Therefore, ATM LANs offer big advantages when used in **multimedia** service integration.

However, several technical issues must be considered for the realization of **multimedia** applications that fully utilize such ATM capabilities.

(1) how to provide seamless ATM connections with...

...how to guarantee QOS with appropriate ATM traffic management functions for a wide variety of **multimedia** applications, and

(3) how to integrate actual **multimedia** applications with an effective ATM application interface.

One problem deals with ATM connectivity, which is...

...LANs. Regarding the IP protocol, this model is called a "classical IP model" [6]. When **multimedia** communications are handled over multiple ATM subnetworks, a severe performance bottleneck and service quality degradation...

...extended, according to the new addressing concept.

Another key issue for managing ATM connections in **multimedia** application

environments is how to guarantee the QOS. ATM traffic management control is responsible for...

...problems that need to be solved in order to guarantee the multiple QOSs required for **multimedia** applications over ATM. Considering the simplicity and the cost-effectiveness of traffic control in the...

...can make good use of ATM's broadband, seamless and multiple QOS functionality. Integration of **multimedia** applications and high-performance ATM protocols is one of the authors' main goals. From this point of view, we decided to develop a **multimedia** application network testbed based on the proposed ATM protocol architecture. The application interface over ATM is a core part of the integration problems, and should be constructed so that **multimedia** applications are capable of fully and flexibly utilizing high-performance ATM functionality. For example, if...  
...not only to verify the proposed ATM protocol architecture, but also to provide an attractive **multimedia** application development platform.

In this article, we present a new ATM LAN connection and traffic management scheme and the current ATM LAN prototype system with a highly effective **multimedia** application, which supports **multimedia** data retrieval, called "**multimedia on demand**." In the following sections, we describe an overview of the proposed schemes; propose a connection...

...the developed ATM LAN prototype system; and make a concluding assessment.

#### Overview of ATM-Oriented **Multimedia** Network Control

In order to solve the problems we have described, we employ a new...

...new traffic management scheme. The proposed schemes are validated by the ATM testbed system, called "**multimedia on demand over ATM**," implemented with a new **multimedia** application interface.

#### Connection Management Scheme

ATM is a connection-oriented protocol that has two different...An ATM LAN is expected to offer not only existing LAN data services but also **multimedia** services, such as image transfer, scientific visualization, and real-time audio and video. In order...

...end peak rate control [23] with link-by-link backpressure control [3]. Rate control with **feedback** control information, one of the most promising means of adaptive congestion control, is now being...

...for each burst by adaptively adjusting the peak bandwidth to the degree of network congestion.

#### **Multimedia on Demand over ATM**

The prototype system was developed to realize the integration of both the proposed control architecture and **multimedia - on - demand** applications. The **multimedia - on - demand** application is intended to show the following usage scenarios: distributed **multimedia** document, **multimedia** database retrieval, **video on demand** for entertainment, and home shopping. The basic concept of this application design is that **multimedia** documents located at a user workstation can be linked to video or image media data...

...user documents with user-friendly buttons and windows. Therefore, it is easy to develop a **multimedia - on - demand** application, which fully

utilizes ATM functionalities with a simple ATM application interface.

#### Connection Management

As described previously, **multimedia** data networking requires a connection that can provide high throughput data transmission and guarantee appropriate...to resolve the next hop ATM address. This problem causes significant latency for delay-sensitive **interactive** applications. Additionally, NHRP has a security problem: it cannot provide perfect screening/filtering capability for...almost the same as that of the peer model. It is appropriate for delay-sensitive **interactive** applications.

3. UNI compatibility. The proposed scheme has almost the same compatibility as the current...

...routers, and terminals within the same LIS (C) through a point-to-multipoint connection, a **multicast** server, or flooding. In particular, in case of network-layer **multicast** routing, every gateway ATM switch supports **multicast** link state routing protocols, such as **multicast** open shortest path first (MOSPF), and group management control protocols, such as the Internet group...

...protocol (IGMP). The routing information is distributed in the same manner as the unicast routing. **Multicast** connections within the same LIS are established by whole ATM addresses joining in the same **multicast** group, and **multicast** connections between the different LISs are established by network-layer **multicast** address.

In procedure 3, an ATM switch makes a local ARP table that indicates the... routing. Each ATM switch decides the best path routing according to the specified QOS.

The **multicast** signaling control procedure depends on the location of **multicast** group hosts, considering whether they are located inside or outside of the same LIS. Within the LIS, the source terminal recognizes each **multicast** group host ATM address and simply adds each ATM address into a **multicast** connection by the point-to-multipoint setup signaling message "ADD[character omitted]PARTY" [1]. On the other hand, if **multicast** group hosts are located outside of the LIS, the source terminal adds the **multicast** network layer protocol address into a **multicast** connection, by extending the "ADD[character omitted]PARTY." This "ADD[character omitted]PARTY" message is...

...gateway ATM switch, and the succeeding procedure is performed according to the location of other **multicast** group hosts.

In terms of the extended filtering key for security enhancement, since VCCs are...layer protocol attributes.

#### Traffic Management Scheme

Another key issue for managing ATM connections in a **multimedia** application environment is how to effectively guarantee the QOS for a wide variety of **multimedia** applications. In this section, we define the service classes for a simple connection/traffic control...

...ATM LAN is expected to offer not only existing LAN data services but also various **multimedia** services. To provide such a variety of services, an ATM LAN has to support multiple...

...For short bursts, whose transmission time is shorter than the round-trip

time (RTT), simple **feedback** control may be enough. However, we believe a large file transfer, whose transmission time is...

...the ATM Forum, two kinds of congestion control schemes for ABR services have been proposed: **closed - loop** rate-based control [2] and link-by-link credit control [10]. Rate-based control is a kind of **feedback** control mechanism that modulates the volume of traffic admitted to the network according to the...and low-link utilizations. Details of this simulation model and results were presented in [9].

#### **Multimedia on Demand over ATM**

It is important to consider real-world applications that can fully utilize ATM...

...broadband/seamless and multiple QOS functionality. This section focuses on how to effectively integrate actual **multimedia** applications with several ATM protocols described earlier. The distributed server and client **multimedia** system was developed as a prototype system, called "**multimedia on demand over ATM**." It can be used to demonstrate both next-phase ATM LAN features and **multimedia** applications, such as workstation-based distributed **multimedia** document processing and home terminal/digital TV-based entertainment or information retrieval. In this section, we present an overview of the current prototype system implementation and explain the key modules in this system. The **multimedia** application interface issue for ATM networks, which manages ATM connections and controls the desired ATM...

...stage.

#### Prototype System Overview

A diagram showing the hardware and software architecture for the experimental **multimedia - on - demand** system is shown in Figure 13 [13]. [Figure 13 omitted] The basic concept of the application software design is to permit any user's **multimedia** documents to be linked to video or image media files located at remote distributed servers...

...the high-speed network. Therefore, it allows users to avoid transmission and storage of large **multimedia** files, retrieving only what is required for actual viewing or processing of a document. That is, the users can retrieve the video, image, and text with audio **on demand** from several remote **multimedia** servers. This application is also intended to be built in a flexible, object-oriented manner. This object-oriented approach provides considerable flexibility in constructing **multimedia - on - demand** application interfaces with user-friendly buttons and windows for media display. In addition, this approach promotes efficient, high-quality network delivery of **multimedia** information, since media types may be identified and associated with appropriate QOS and flow-control...

...software to enable fast and reliable workstation access to video/image information stored in several **multimedia** servers. The current system implementation consists of the following key modules:

1 XATOM architecture ATM...

...ATM interface;

3. ATM addressing/routing/signaling and congestion control;

4. application software for distributed **multimedia** documents and **video on demand** ; and

5. **multimedia** application interface for setting up a relationship between other modules. We will describe each module...

...10 workstations are used as platforms for this demonstration, at both the terminal and the **multimedia** file server ends. Each of these stations is equipped with a prototype ATM interface card...rate control for FRP in the guaranteed burst class, because ATM traffic in the present **multimedia - on - demand** scenario is characterized by large bursts of information from server to client terminal. This control...

...through the control port and then using the loop-back mechanism available in the switch.

#### **Multimedia** Application Software

A diagram showing the **multimedia** server-client approach is shown in Figure 14.[Figure 14 omitted] At the client terminal, a **multimedia** document is parsed into media elements (objects), each of which is handled by its own...

...between the server and the client. The control path associates a location index in the **multimedia** server with each media, and retrieval is accomplished via appropriate conversions of the index to...

...with appropriate QOS parameters, and the information is transferred to the client terminal displaying the **multimedia** document. Furthermore, a simple groupware function is also added to the TCL/TK script, so that several terminals can share the same **multimedia - on - demand** view by passing a message among group hosts. This groupware function is effective for use as an education and training tool.

In the present implementation, compressed National **Television** Systems Committee (U.S. Standard) quality (640 x 480 pixels) JPEG video segments are stored on the server disk and may be accessed by either a **multimedia** document or a **video - on - demand** session. Multiresolution uncompressed image files (typically 4K x 4K max resolution), also stored on the same disk, are retrieved for the **multimedia** document application. By accessing the **multimedia** server from six Sun workstations, quality degradation cannot be seen, while the number of frames per second is almost 30, as much as normal **TV** quality. Figure 15 is a photograph of the actual prototype system.[Figure 15 omitted]

#### **Multimedia** Application Interface

Current transport protocols, such as TCP, may be used for some **multimedia** applications, but are known to suffer from serious limitations in a general high-speed network...

...type sources, while also providing faster implementation than TCP. The current implementation includes a prototype **multimedia** transport protocol (MTP) with selectable QOS options, such as peak bandwidth, for different media. In...error recovery/concealment.

#### Conclusion

We have presented new connection and traffic management schemes for ATM **multimedia** internetworking and have shown a current prototype system with

a **multimedia - on - demand** application. We proposed a new connection management scheme, based on gateway model addressing. The proposed...

...Finally, we presented the current prototype system, which is being developed to integrate with actual **multimedia** applications. This system has a **multimedia** application interface, which helps to automatically indicate the desired QOS for that application.

As a result, the proposed architecture can easily support high-speed **multimedia** services as well as conventional connectionless services, and will lead to a distributed **multimedia** computing environment. In the future, an effective **multicast** routing/signaling and congestion control protocol will be considered in detail. As for integration of a **multimedia** application with an ATM control scheme, further improvements for the **multimedia** transport protocol and **multimedia** application interface are planned. Additionally, the performance of both the proposed ATM control scheme and the **multimedia** application are being evaluated and will be reported in future work.

#### Acknowledgments

We are very...

...ATM user-network interface specification Ver. 3.0. ATM Forum (Sept. 1993).

2. ATM Forum. **Closed - loop** rate-based traffic management. ATM Forum/94-0438R2, Sept. 1994.

3. Boudec, J.L., et...

...20-21, 1992.

13. Ott, M., et al. A prototype ATM network based system for **multimedia - on - demand**. In Proceedings of the 5th IEEE Comsoc **Multimedia '94** 3-2, (May 1994).

14. Ousterhout, J.K. An Introduction to TCL and TK...staff in the C&C Research Laboratories at the NEC Corporation. Current research interests include **multimedia** -friendly hardware architectures, real-time operating systems, new user-centered approaches to navigating large "chaotic..."

23/3,K/51 (Item 12 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07431349 Supplier Number: 62512636 (USE FORMAT 7 FOR FULLTEXT)  
**ViewGate Partners with Orchestream to Deliver Breakthrough Solution for  
Service Providers Delivering Advanced, On - Demand IP Services.**  
Business Wire, p1127  
June 6, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 750

**ViewGate Partners with Orchestream to Deliver Breakthrough Solution for  
Service Providers Delivering Advanced, On - Demand IP Services.**  
... 6, 2000

Integrated Solution Guarantees Quality and Accurate Measurement of  
Specific IP Service Criteria

ViewGate **Networks**, a leading **provider** of real-time, end-to-end  
service management, today announced a partnership with Orchestream(TM...

...a videoconference may have completely different criteria or quality  
definitions from those of an IP **multicast**..

This breakthrough solution will enable service providers delivering  
advanced, **on - demand** IP services to stay a step ahead of their  
competitors by offering them the capability...

...the quality of, and accurately measure the relevant criteria of the  
specific IP services being **delivered** .

ViewGate is providing Inteligo(TM) **Tracker** Architecture, which  
offers competitive retail carriers the unique capability to deliver, manage  
and report on critical performance indicators of **on - demand** IP services  
and applications in real time.

Orchestream is providing a full suite of service...

...vast array of premium quality, next-generation IP services, but offer  
their customers an ongoing **feedback** mechanism that will ensure they  
receive the desired quality and level of service."

"In order...

...service measurement platform, enabling competitive service retail  
carriers to deliver, manage and report on their **on - demand** IP services  
and applications and offer their enterprise customers a seal of quality and  
measurable...

...The company's Inteligo(TM) software solutions offer unparalleled  
carrier-class scalability for real-time, **on - demand** integrated service  
monitoring, diagnostics and performance reporting for multi-vendor IP, ATM  
and frame relay **networks** - optimizing service **provider networks** while  
increasing service levels to their customers. ViewGate's corporate  
headquarters are in Alexandria, Virginia...

20000606

23/3,K/52 (Item 13 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07412028 Supplier Number: 62417301 (USE FORMAT 7 FOR FULLTEXT)  
**ViewGate Unveils Inteligo Tracker Architecture, Enabling Retail Carriers**  
to Deliver , **Manage and Report on Dynamic**, On - Demand IP Services.  
Business Wire, pl115  
May 30, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 920

ViewGate Unveils Inteligo Tracker **Architecture, Enabling Retail Carriers**  
to Deliver , **Manage and Report on Dynamic**, On - Demand IP Services.  
... Carriers to Offer Enterprise Customers a  
Seal of Quality for Their IP Service Episodes  
ViewGate **Networks** , a leading **provider** of real-time, end-to-end  
service management, today unveiled its Inteligo(TM) Tracker Architecture...

...enables competitive service retail carriers to deliver, manage and  
report on the performance of their **on - demand** IP services and  
applications, and verify that their enterprise customers are receiving  
services that meet...  
...that are based on the resale of transport capacity offered by today's  
long-haul **network** , application, and content **providers** .

Contrasting today's monthly rental model for services, the retail  
carrier will provide pay-as-you-go or **on - demand** services. Quality will  
be defined specifically for the type of service or application contracted,  
on...

...CEO, ViewGate Networks. "ViewGate's Inteligo Tracker Architecture is  
designed to enable the providers of **on - demand** IP services and  
applications to meet this challenge head-on and become leaders in the...

...VPS Advisor. As well as offering objective performance measurements,  
these applications provide subjective user-evaluation **feedback** from  
enterprise customers in terms of how satisfied they are with the quality of  
the...

...giving them the confidence to allow their enterprise users to freely  
subscribe to these new, **on - demand** services on their network.

With VPS Advisor, retail carriers will be in a better position...

...marketing, business development and partner management functions through  
qualitative and quantitative reports. Due to the **on - demand** and flexible  
nature of IP services, fierce competition, and the pace at which the  
marketplace is evolving, timely business **feedback** is integral to the  
survival of retail carriers. VPS Advisor provides the necessary **feedback**  
-- in flexible, web-based report formats -- that analyze business trends,  
service uptake, correlation of external...

...their customers. Retail carriers will also be provided with the  
capability to receive immediate satisfaction **feedback** from end users  
through subjective surveys.

Pricing and Availability

ViewGate plans to offer VPS Manager...

...service measurement platform, enabling competitive service retail  
carriers to deliver, manage and report on their **on - demand** IP services



and applications and offer their enterprise customers a seal of quality and measurable...

...The company's Inteligo(TM) software solutions offer unparalleled carrier-class scalability for real-time, **on - demand** integrated service monitoring, diagnostics and performance reporting for multi-vendor IP, ATM and frame relay **networks** -- optimizing service **provider networks** while increasing service levels to their customers. ViewGate's corporate headquarters are in Alexandria, Virginia...

20000530

23/3,K/56 (Item 17 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

06940424 Supplier Number: 58611851 (USE FORMAT 7 FOR FULLTEXT)  
**Akamai to Acquire Network24 Communications to Extend Broadband Streaming  
Media Leadership.**  
Business Wire, pl026  
Jan 18, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 977

CAMBRIDGE, Mass.--(BUSINESS WIRE)--Jan. 18, 2000  
Acquisition to Advance Distributed Streaming Media and  
**Interactive** Applications on Akamai's EdgeAdvantage Platform  
Akamai Technologies (NASDAQ: AKAM), the foremost provider of global  
...

...to provide corporations, media, and entertainment companies the ability  
to conduct and manage live and **on - demand** Internet broadcasts such as  
distance learning, corporate communications, sales presentations, and  
**interactive** concerts, in an easy, effective, and highly **interactive** way  
while realizing significant return on investment. For customers, the  
resulting cost savings and benefits...

...Broadcast management - with live encoding, live program  
moderation, synchronization of program content, automated  
archiving for **on - demand** viewing, and **pay - per - view** and  
restricted  
access capability;  
- Network management - including replication, security, control,  
and monitoring of live streams; and  
- Navigation and **feedback** - with live Q&A, chat, survey, program  
guide, site search, data analysis, and detailed reporting on  
program registration and real-time audience **feedback** .  
Content providers and end users worldwide will benefit from the  
marriage of Akamai's high...

...unique and comprehensive solution for Web content providers that are  
ready to produce a dynamic, **interactive** broadband media experience for  
their users," said Akamai chairman and CEO George Conrades. "The  
integration...

...services platform, we are enabling corporate and entertainment sites  
alike to provide new and compelling **interactive** Web functionality."

Network24 has attracted the attention of industry leaders, **analysts**  
and customers, and has already **delivered** hundreds of live and **on -  
demand** Internet broadcasts for leading businesses including  
Hewlett-Packard Company and IDG. Microsoft Chairman Bill Gates...

...our broadband streaming future is Akamai's rapidly growing coverage of  
major DSL, cable, and **satellite networks** ."

The transaction will be completed primarily in a stock-for-stock  
merger in which Akamai...

...the only automated application service enabling commercial Web sites to  
combine the media richness of **TV** and the **interactivity** and  
measurability of the Web. Network24 delivers comprehensive Internet  
broadcast solutions for enterprises, Internet content...

20000118



23/3,K/61 (Item 22 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

05863171 Supplier Number: 53015179 (USE FORMAT 7 FOR FULLTEXT)  
**FROM THE EARTH TO THE MOON Software is the Silent Workhorse of Satellite  
Networks by Katie McConnell.**  
Via Satellite, v13, n8, pNA  
August 1, 1998  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 3271

(USE FORMAT 7 FOR FULLTEXT)  
**FROM THE EARTH TO THE MOON Software is the Silent Workhorse of Satellite  
Networks by Katie McConnell.**

TEXT:

Many components go into the mix when creating a **satellite** communications **network**. There is the launch vehicle, the earth station and of course the **satellite**, with its **multitude** of onboard technologies. Ensuring that all these pieces come together is the quiet workhorse-the...

... an interface between the antenna and the RF front end, as well as a commercial **network** to **distribute satellite** data and receive commands. The system supports simple frame-based formats as well as standardized...

...system for Windows NT.

Because every customer has a different set of requirements for their **satellite** earth station **network**, the Presence system is continually updated to meet customer requirements for features and capability, says...

...president of marketing.

Among the capabilities that Presence provides are TT&C earth station applications, **TV** distribution and broadcasting applications, VSAT applications, network control center applications, mobile satellite applications, terrestrial microwave link applications, and telephony and data **satellite network** applications.

"Our monitor and control software provides complete remote monitoring and control of all satellite earth station equipment and facilities equipment in a **satellite network**," says Siversten. "The benefit of installing a Presence system to the owner/operator of a **satellite** communications **network** is that they now have a highly reliable monitor and control system capability."

All of in that network. Also, Presence can monitor each carrier signal in a **satellite** communications **network** through its carrier monitoring and status capabilities. This gives the operator the ability to see...

...operating in a given satellite earth station anywhere in the world from the remotely located **network** control center.

Many **satellite** companies employ Presence, including the U.S. government, Worldspace, Orbital Sciences Corp. and DirecTV, to...

...F. Cavanagh, vice president of marketing and strategic alliances. "It simplifies operation and maintenance of **satellite** earth stations and **networks** and it enables this to be accomplished on-site or from a remote location. It...

...satellite communications applications that uses Satnet is a project that includes the management of a **network** of **satellite** earth stations that are used to connect mobile phone cell sites. The owner of the...

...by shipping the entire product on a single CD.

Software central

One centralized system that **monitors** and controls **uplink** and **downlink** equipment for satellite earth stations and **TV** stations is Crystal Computer Corp.'s Crystalvision 2000 monitor and control system.

Crystalvision 2000 enables operators to monitor and control the earth station or **TV** station equipment with clarity, accuracy and precision, according to Tom Larrison, sales and marketing manager. "Precise and timely **feedback** on the status of all integrated equipment coupled with responsive, centralized control of all devices...

...over 3,000 miles away, with a spectrum analyzer," says Larrison. "They are able to **monitor** their **downlink** with this setup."

Most recently, the company has added the uplink facilities for the ABC **Television** Network in New York and all uplink and downlink operations for TBS Inc., including CNN...

...is installing a system for a TT&C facility in South Africa.

In addition to **monitoring** and controlling the **uplink** and **downlink** operations, some customers are using the **uplink** power control functions and EIRP **monitor** and control capabilities of the Crystalvision 2000 software. "We also provide real-time logging features...networking. The Sampplets product extends this to the Web. Neither product requires any graphics or **network** programming.

Many top **satellite** companies are employing Sampplets, including Lockheed Martin, Boeing and Aerospatiale, to name but a few...

...now distribute video, audio, software and large data files more efficiently by using Starburst's **Multicast** file transfer solution in tandem with Microspace's Veleocity satellite service.

Microspace, a provider of satellite data and audio broadcast services, has agreed to recommend Starburst **Multicast** software to its Velocity satellite service customers, many of whom use satellite distribution for the distance learning and **television** industries.

By using Starburst **Multicast** and Velocity in conjunction, businesses get a single satellite information distribution solution. Velocity supports transfer...

...at a fixed monthly cost completely independent of the number of receive sites within the **network**.

"Our Velocity **satellite** service provides a reliable delivery platform for Starburst **Multicast**," says Joseph Amor, vice president and general manager of Microspace. "Together, the Starburst and Microspace products provide a very stable, reliable delivery platform for business networks."

Starburst's **multicast** file transfer technology strives to make satellite transmissions faster, more efficient and scalable. Based on the company's **Multicast** File Transfer Protocol (MFTP), Starburst **Multicast** enables a single server to send traffic to any number of sites conserving bandwidth, minimizing...

...quality demands and provides management assurance that optimum use is made of satellite capacity.

In **summary**


With each passing year, more **products** are developed or improved to handle the changing needs of the satellite communications industry. The... earth to the moon, software products are a rapidly becoming a critical component of the **satellite** communications **network**.

Katie McConnell is managing editor of Via Satellite and Executive Editor of Wireless Business & Technology...

NAICS CODES: 33422 (Radio and **Television** Broadcasting and Wireless  
Communications Equipment Manufacturing); 51121 (Software Publishers)  
19980801

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	fickle-r\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 08:39
L2	34	royo-j\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 08:39
L3	5	aron-t\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 08:39
L4	36	1 2 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/09 08:39

US 20040255335 A1 US-PGPUB  
~~US 20040103120 A1 US-PGPUB~~  
~~WO 2004051475 A1 EPO~~  
US 20040255335 A DERWENT  
US 20040103120 A DERWENT

 = THIS  
APPLICATION



Set	Items	Description
S1	214	AU=(FICKLE R? OR FICKLE, R? OR ROYO J? OR ROYO, J? OR ARON T? OR ARON, T?)
S2	1	(RICHARD OR RICK? OR DICK? OR RICH?) (2N) FICKLE OR JOSE (2N) - ROYO OR (TIM OR TIMOTHY OR BRUCE) (2N) ARON
S3	202656	VOD OR VIDEO (2W) DEMAND OR MULTIMEDIA? OR MULTI() MEDIA? OR - MSO OR MULTIPLE() SYSTEM?() OPERAT?
S4	0	S1:S2 AND S3
S5	0	S1:S2 AND (AUDIOVISUAL? OR AUDIO() VISUAL? OR MOVIE? OR TELEVISION?)
S6	13	S1:S2 AND SATELLITE?
S7	10	RD (unique items)
? show files		
File	2:INSPEC 1969-2005/May W5	(c) 2005 Institution of Electrical Engineers
File	6:NTIS 1964-2005/May W5	(c) 2005 NTIS, Intl Cpyright All Rights Res
File	8:EI Compendex(R) 1970-2005/May W5	(c) 2005 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W1	(c) 2005 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2005/May	(c) 2005 ProQuest Info&Learning
File	62:SPIN(R) 1975-2005/Mar W4	(c) 2005 American Institute of Physics
File	65:Inside Conferences 1993-2005/Jun W1	(c) 2005 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2005/Apr W3	(c) 2005 Japan Science and Tech Corp(JST)
File	95:TEME-Technology & Management 1989-2005/May W1	(c) 2005 FIZ TECHNIK
File	99:Wilson Appl. Sci & Tech Abs 1983-2005/May	(c) 2005 The HW Wilson Co.
File	111:TGG Natl.Newspaper Index(SM) 1979-2005/Jun 09	(c) 2005 The Gale Group
File	144:Pascal 1973-2005/May W5	(c) 2005 INIST/CNRS
File	256:TecInfoSource 82-2005/Apr	(c) 2005 Info.Sources Inc
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
?		



SIGNIFICANT  
HITS  
AFTER  
REVIEW

<p>AUTHOR SEARCH</p> <hr/> <p>NON PAT- Lit</p> <hr/> <p>www.else</p>
--

Set	Items	Description
S1	24	AU=(FICKLE R? OR FICKLE, R? OR ROYO J? OR ROYO, J? OR ARON T? OR ARON, T?)
S2	445	(RICHARD OR RICK? OR DICK? OR RICH?) (2N) FICKLE OR JOSE (2N) - ROYO OR (TIM OR TIMOTHY OR BRUCE) (2N) ARON
S3	1882017	VOD OR VIDEO (2W) DEMAND OR MULTIMEDIA? OR MULTI() MEDIA? OR - MSO OR MULTIPLE() SYSTEM?() OPERAT?
S4	166	S1:S2 AND S3
S5	313	S1:S2 AND (AUDIOVISUAL? OR AUDIO() VISUAL? OR MOVIE? OR TEL- EVISION?)
S6	190	S1:S2 AND SATELLITE?
S7	166	S4 AND S5:S6
S8	155	S7 AND PY<2003
S9	83	RD (unique items)

? show files

File 9:Business & Industry(R) Jul/1994-2005/Jun 09  
(c) 2005 The Gale Group

File 13:BAMP 2005/May W5  
(c) 2005 The Gale Group

File 15:ABI/Inform(R) 1971-2005/Jun 08  
(c) 2005 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2005/Jun 09  
(c) 2005 The Gale Group

File 20:Dialog Global Reporter 1997-2005/Jun 09  
(c) 2005 The Dialog Corp.

File 47:Gale Group Magazine DB(TM) 1959-2005/Jun 09  
(c) 2005 The Gale group

File 75:TGG Management Contents(R) 86-2005/May W5  
(c) 2005 The Gale Group

File 88:Gale Group Business A.R.T.S. 1976-2005/Jun 09  
(c) 2005 The Gale Group

File 98:General Sci Abs/Full-Text 1984-2004/Dec  
(c) 2005 The HW Wilson Co.

File 141:Readers Guide 1983-2005/Dec  
(c) 2005 The HW Wilson Co

File 148:Gale Group Trade & Industry DB 1976-2005/Jun 09  
(c) 2005 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group

File 239:Mathsci 1940-2005/Jul  
(c) 2005 American Mathematical Society

File 275:Gale Group Computer DB(TM) 1983-2005/Jun 09  
(c) 2005 The Gale Group

File 369:New Scientist 1994-2005/Apr W4  
(c) 2005 Reed Business Information Ltd.

File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS

File 484:Periodical Abs Plustext 1986-2005/Jun W1  
(c) 2005 ProQuest

File 553:Wilson Bus. Abs. FullText 1982-2004/Dec  
(c) 2005 The HW Wilson Co

File 610:Business Wire 1999-2005/Jun 08  
(c) 2005 Business Wire.

File 613:PR Newswire 1999-2005/Jun 09  
(c) 2005 PR Newswire Association Inc

File 621:Gale Group New Prod. Annou.(R) 1985-2005/Jun 09  
(c) 2005 The Gale Group

File 624:McGraw-Hill Publications 1985-2005/Jun 08  
(c) 2005 McGraw-Hill Co. Inc

File 634:San Jose Mercury Jun 1985-2005/Jun 08  
(c) 2005 San Jose Mercury News

File 635:Business Dateline(R) 1985-2005/Jun 08  
    (c) 2005 ProQuest Info&Learning  
File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 09  
    (c) 2005 The Gale Group  
File 647:CMP Computer Fulltext 1988-2005/May W4  
    (c) 2005 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2005/Jun W1  
    (c) 2005 IDG Communications  
File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 08  
    (c) 2005 The Dialog Corp.  
File 810:Business Wire 1986-1999/Feb 28  
    (c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
    (c) 1999 PR Newswire Association Inc

?

9/3,K/3 (Item 3 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02530546 Supplier Number: 24962856 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**AT&T Broadband Division Joins with California Firm for Interactive TV Services**

(AT&T Headend In The Sky has deal with Liberate in which the firms will collaborate on low-cost interactive TV offerings)  
Denver Post , p na  
August 23, 2001  
DOCUMENT TYPE: Regional Newspaper (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 405

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...which viewers can play "Who Wants to be a Millionaire."

Hits delivers digitally compressed cable- **television** programming signals to 140 cable operators in the United States.

Liberate, of San Carlos, Calif...  
...offer future upgrades that will allow cable operators to add two-way services such as **video** on **demand**, interactive advertising and e-commerce.

"Our affiliates can immediately provide their customers compelling new applications without having to invest in costly server infrastructures or set-top upgrades," said **Rich Fickle**, senior vice president of Hits.

"Liberate's open architecture gives us the flexibility to add...

PRODUCT NAMES: Cable **television** equipment (366380...

...Interactive cable **television** (CATV) (484028...

9/3,K/4 (Item 4 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02470708 Supplier Number: 24888220 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**AT&T'S ITV Backtrack**

(AT&T Broadband is pulling back from plans to develop an interactive-  
television platform based on advanced digital set-tops in order to focus  
on set-tops already deployed and ones it will order)

Multichannel News, v 22, n 24, p 1  
June 11, 2001  
DOCUMENT TYPE: Journal ISSN: 0276-8593 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1304

(USE FORMAT 7 OR 9 FOR FULLTEXT)

(AT&T Broadband is pulling back from plans to develop an interactive-  
television platform based on advanced digital set-tops in order to focus  
on set-tops already...  
)

TEXT:

By STEVE DONOHUE

### **MSO Won't Activate 5000s' Modems**

AT&T Broadband is retreating from its long-held plans to create an interactive- **television** platform based on the most advanced digital set-tops.

Instead, executives said last week, the **MSO** will focus on offering ITV through the 3 million thin-client set-tops it has already deployed, and through new "enhanced-basic" set-tops that it will order.

**MSO** executives said they're shifting their focus away from the advanced-digital service because they...

...to focus on generating additional revenue from the 3 million thin-client set-tops the **MSO** has already deployed.

...Another large set-top order from AT&T may also be in the works. The **MSO** plans to buy new "enhanced-basic" set-tops that will contain memory allowing for personal...

...Show, Motorola plans to discuss plans for a "midrange" box, dubbed the DCT-2500.

The **MSO** may select one or several vendors for the enhanced-basic boxes, Ofsentjuk said. While there...

...company acquired from Peach Networks last year.

In another significant strategy change, Ofsentjuk said the **MSO** will no longer rely on internal staff to develop its ITV platform, and will instead ...

...the DCT-2000.

"The primary focus is on the DCT-5000," former director for interactive **television** Rich Fickle said at the time. He now runs AT&T's Headend In The Sky platform...

...the DCT-5000, but Ofsentjuk said last week that he did not know if the **MSO** would deploy RespondTV this year, as planned.

"It's not that we're walking away...

...date, AT&T's ITV initiatives consist of a deployment of Diva System Corp.'s **video -on- demand** service in Atlanta, and WorldGate's Internet TV product in Waterloo and Cedar Falls, Iowa...

PRODUCT NAMES: Cable **television** equipment (366380...

...Interactive cable **television** (CATV) (484028)

---

9/3,K/7 (Item 7 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02317777 Supplier Number: 25910881 (USE FORMAT 7 OR 9 FOR FULLTEXT)

What AT&T's Cooking: Managed Content, More

(AT&T Broadband plans to focus on such areas as video -on- demand ,  
Internet-over-TV, managed-content areas, and gaming applications through  
its Motorola "DCT-2000" boxes)

Multichannel News, v 21, n 48, p 198

November 27, 2000

DOCUMENT TYPE: Journal ISSN: 0276-8593 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 744

(USE FORMAT 7 OR 9 FOR FULLTEXT)

(AT&T Broadband plans to focus on such areas as video -on- demand ,  
Internet-over-TV, managed-content areas, and gaming applications through  
its Motorola "DCT-2000" boxes)

TEXT:

...MATT STUMP

Coming soon to an AT&T Broadband 2000-series set-top near you: **Video -on- demand** , Internet-over-TV, managed-content areas and simple gaming applications.

Those are the four key...

...boxes.

It will also work on bringing the next-generation 5000 to market, according to **Rich Fickle** , AT&T Broadband's vice president of marketing and new business.

AT&T is already rolling out Diva Systems Corp.'s **VOD** system in Los Angeles, San Francisco, Atlanta and Pittsburgh. And AT&T is adding WorldGate...

...streaming and personal video recording also are getting some attention.

"Video streaming is not unlike **VOD** in some ways," Fickle said. "We think the functionality is important to provide consumers more..."

PRODUCT NAMES: Cable **television** equipment (366380...

...Cable **television** (CATV) networks and channels (484014...

---

9/3,K/8 (Item 8 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

(c) 2005 The Gale Group. All rts. reserv.

02306643 Supplier Number: 25899115 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**AT&T Names Three WorldGate Cities**

(WorldGate Communications' product will be launched by AT&T Broadband in  
three cities: Waterloo, IA; Cedar Falls, IA; and Tacoma, WA)

Multichannel News, v 21, n 46, p 12

November 13, 2000

DOCUMENT TYPE: Journal ISSN: 0276-8593 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 434

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Broadband plans to launch WorldGate Communications Inc.'s product in three cities, but the top **MSO** says it's still not sure when or how it might market Internet-over- **television** services to the rest of the U.S.

Last week, AT&T said it had...

...mail and Internet access. The company will experiment with pricing on the other systems, said **Rich Fickle**, AT&T Broadband program director of ITV.

One striking aspect is that AT&T will...

...TV Guide," Fickle said.

Fickle wouldn't say whether WorldGate would be involved with the **MSO** 's advanced digital rollout, set to begin next year. The company plans to conduct trials...

...after it is sold to AT&T Corp. Boylan cited assurances he received from the **MSO**.

"Unfortunately Cablevision selected somebody other than the guide that AT&T ultimately plans to choose..."

---

9/3,K/10 (Item 10 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02209929 Supplier Number: 25773249 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**AT&T to use RespondTV technology**

**(AT&T Broadband Services plans to introduce its DTV customers to interactive television using technology from RespondTV)**

Electronic Media, v 19, p 3+

July 17, 2000

DOCUMENT TYPE: Journal ISSN: 0745-0311 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 618

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**(AT&T Broadband Services plans to introduce its DTV customers to interactive television using technology from RespondTV)**

TEXT:

...cable giant's expected deployment of second-generation digital set-top boxes and an interactive **television** platform early next year.

"The fact that RespondTV has inked a deal with AT&T would appear to have legitimized interactive **television**," said Michael Moore, worldwide director of Purina Interactive, one of RespondTV's clients. Others include

...  
"This is one of the first major commitments to using standards for enhanced **television**," said AT&T's program director for interactive **television**, **Rich Fickle**. Mr. **Fickle** is flattered by the depiction of his company as a legitimizer but personally believes the...

...Safeway and Domino's Pizza. "AT&T is a giant benefit-they're the largest ( **multiple system operator** ), so right out of the gate, you're looking at a significant number."

Though Purina...

PRODUCT NAMES: Cable **television** (CATV) systems operators (484020...  
...Interactive cable **television** (CATV) (484028)

---

9/3,K/11 (Item 11 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02209916 Supplier Number: 25773232 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Interactive TV: 'This is finally the real rollout'**  
(Interactive TV is finally being rolled out; there are 8+ mil digital  
set-top boxes in customers' homes, according to Next Century Media CEO  
Bill Harvey)  
Electronic Media, v 19, p 24+  
July 17, 2000  
DOCUMENT TYPE: Journal ISSN: 0745-0311 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 967

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Interactive TV is here. Or at least that's what cable operators are hoping.

Several **multiple system operators** plan trials and market introductions this fall, to be followed by commercial deployment. Much is ...  
...between \$10 and \$25 per month, Ms. Cohn said. The operator is also rolling out **video -on- demand** this summer.

Time Warner launching VOD

**Video -on- demand** is at the heart of Time Warner Cable's interactive plans.

The operator introduced the...

...systems later this year and early 2001. The service offers about 100 titles, and a **movie** costs \$4, said Kevin Leddy, Time Warner's senior vice president of new product development...

...testing Internet on TV via Worldgate in Willow Grove, Pa., and plans to launch three **video -on- demand** trials by the end of the year. Commercial rollouts should follow, based on customer reaction...

...a user could, for instance, call up more information on a favorite sports star, said **Rich Fickle**, program director for interactive **television**.

The core level of service will allow for e-mail, an interactive calendar and an...

...the end of this year. In the initial launch, the operator will offer e-mail, **video -on- demand** and Web-enhanced TV but not full Internet access. Commercial rollout should begin aggressively in...



PRODUCT NAMES: Cable **television** equipment (366380...

...Interactive cable **television** (CATV) (484028)

---

9/3,K/12 (Item 12 from file: 9)  
DIALOG(R) File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

02209260 Supplier Number: 25772961 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**RespondTV Signs Up AT & T For Advanced-Box Rollout**  
(RespondTV signed an affiliate deal with AT&T Broadband, its first deal with a cable operator in its rollout of high-end Motorola Broadband Communications Sector DCT-5000 set-tops)

Multichannel News, v 21, n 29, p 107

July 17, 2000

DOCUMENT TYPE: Journal ISSN: 0276-8593 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 761

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

By STEVE DONOHUE

RespondTV Inc. may have struck the mother lode for enhanced- **television** players, reaching an affiliate deal with AT & T Broadband last week.

The agreement is San...

...operator. It's also the first deal AT & T Broadband has reached with any enhanced- **television** player to support its rollout of high-end Motorola Broadband Communications Sector "DCT-5000" set-tops. The **MSO** plans to begin deploying those boxes by the end of the year.

...week, most of RespondTV's agreements were with advertisers and programmers, including Scripps Networks, Bloomberg **Television**, Domino's Pizza LLC and Ralston Purina Co., which will use the company's infrastructure to deliver enhanced ads and programming.

Under terms of the AT & T Broadband deal, the **MSO** agreed to pass through the triggers RespondTV needs to deliver its enhanced ads and programming...

...to RespondTV's focus on open protocols, including HTML (HyperText Markup Language) and ATVEF (Advanced **Television** Enhancement Forum), senior vice president and program director for interactive **television** **Rich Fickle** said.

The **MSO** also liked Respond-TV's focus on launching on advanced digital set-tops and ability...

...T Broadband would still be open to striking similar deals with Wink or other enhanced- **television** vendors. The **MSO** will probably choose two or three enhanced- **television** players to include in its user interface, he added.

AT & T Broadband would also be...

...Fickle said. "(Networks) could do this. We could do it ourselves, too," he added.

The **MSO** currently has no plans to offer enhanced programming and advertising through the lower-end digital...

...GE Capital Corp., Integrity Partners, Sequoia Partners, Showtime Networks Inc., Tribune Media Ventures and United **Television** Inc.  
...

PRODUCT NAMES: Cable **television** equipment (366380...

...Radio and **television** broadcasting (483000...

...Cable **television** (CATV) systems operators (484020)

---

9/3,K/15 (Item 15 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

01827349 Supplier Number: 24617739 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**NDTC Chief Priddy Sees Set-Top-Box Progress**  
(New National Digital Television Center president outlines set-top box development)  
Multichannel News, v 20, n 17, p 49+  
April 19, 1999  
DOCUMENT TYPE: Journal; Interview ISSN: 0276-8593 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 3547

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
(New National Digital Television Center president outlines set-top box development)

ABSTRACT:

Laurie Schwartz Priddy, president of AT&T's National Digital **Television** Center (NDTC), says the company is working on defining what will be in the first...

TEXT:

...last month in replacing longtime cable executive David Beddow as president of the National Digital **Television** Center, now a part of AT&T Broadband & Internet Services (formerly Tele-Communications Inc.). Besides ...

...the development and deployment of advanced digital set-top boxes for the nation's largest **MSO**. Soon after taking her new position, Priddy -- most recently head of the OpenCable project at Cable **Television** Laboratories Inc. -- talked with Multichannel News senior broadband editor Bill Menezes about the challenges of...

...all of the work we've done in Peter Douglas' group on HDTV (high-definition **television**) and on production and origination, I think a lot of that's really exciting. For...

...the industry?

LSP: I've spent some time talking to (senior vice president of HITS) **Rich Fickle**, who's been responsible for this for quite a few years now. I share his...

...and early service deployment, which can give us an extreme competitive advantage over people like **satellite** and xDSL (digital-subscriber-line)

products. I think that it's a mistake if we...

PRODUCT NAMES: Cable **television** equipment (366380)

---

9/3,K/18 (Item 18 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

(c) 2005 The Gale Group. All rts. reserv.

01552396 Supplier Number: 24257974 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Programmers Flood Channel Lineups With New Networks**

(A number of new cable networks are being introduced, including Nickelodeon and Discovery spinoffs)

Cable World, v 10, n 19, p 1+

May 11, 1998

DOCUMENT TYPE: Journal ISSN: 1042-7228 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 985

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:

...said it has secured analog distribution on a number of small cable systems. Black Entertainment **Television** has launched a new digital package, BET Soundz. Lifetime **Television** is launching its Lifetime **Movie** Network on 6/29/98. American **Movie** Classics' American Pop **multimedia** network will roll out in the fall. The article discusses the development of new networks...

TEXT:

...for operators rolling out digital TV platforms.

Nickelodeon, which touted its collaboration with Children's **Television** Workshop on the educational-themed Noggin network on April 28, announced a pair of new...

...ZDTV	May 11
American Pop	May 15
Canales n	June
INSP Digital	June 1
Lifetime <b>Movie</b> Network	June 29
Discovery Wings Channel	June 30
Discovery Health Channel	June 30
The Suite...	

...Showcase Networks, Discovery Health Channel and Discovery Wings. According to Charley Humbard, VP of digital **television** and special projects at Discovery Networks U.S., the services, geared toward both digital and...

...Cable, Harron Communications, Prestige Cable and Televue, and has a deal with the National Cable **Television** Cooperative. Come July 1, ZDTV will gain digital access through HITS transponder 7. "This is a great channel, with good backing from Ziff Davis," said **Rich Fickle**, VP of marketing and new business development at HITS, of the reported 8100 million that...

...digital environment."

Fickle also said that two of the services being offered on Black Entertainment **Television** 's new digital package, BET Soundz, will be included in part of HITS' "urban pod...

...be a good driver for (Spanish-speaking) people with or without cable," Fickle said.

Lifetime **Television**, meanwhile, trumpeted the June 29 launch of its Lifetime **Movie** Network on advertising panels on the sides of buses making stops around Atlanta. The digital channel was originally slated to premiere in September.

A proponent of convergence, American Pop, the **multimedia** network focused on pop culture nostalgia from American **Movie** Classics, will debut on the Web and broadband service via high-speed cable modems on...

PRODUCT NAMES: Cable **television** (CATV) networks and channels (484014)

---

9/3,K/19 (Item 19 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

01504070 Supplier Number: 24197786 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Small operators on DTV offensive**  
**(Small cable system operators fighting DBS service with HITS service)**  
Electronic Media, v 17, n 11, p D8+  
March 09, 1998  
DOCUMENT TYPE: Journal ISSN: 0745-0311 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 746

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:

Small cable system operators are now fighting **satellite** TV services with Headend in the Sky (HITS) service from TCI. HITS allows the cable...

...1 analog channel, which addresses the increased content demanded by subscribers who have switched to **satellite** services. Buford **Television** (Tyler, TX), for example, estimates it is losing 1% of its subscribers per year to the **satellite** services. HITS was being used by 400 systems by the end of 1997, from just one at the start of the year, with HITS senior VP **Rich Fickle** estimating some 20 mil subscribers will be using HITS eventually. Systems also benefit from not...

TEXT:

...STAFF REPORTER

Small cable operators, the ones most vulnerable to air assault by direct broadcast **satellite** competitors, have been quickly organizing a digital counterattack.

The **satellite** services have lured millions of cable customers, primarily by pitching the power of choice. While...

...DBS who were simply looking for more content," said Ron Martin, chief operating officer, Buford **Television**, Tyler, Texas, whose systems were losing about 1 percent of its customers each year to...  
...900-subscriber system in Heath, Texas, was the first non-TCI system to test the **satellite**-delivered service that crams up to 12 digital channels into the same bandwidth that used...

...cable operators.

"TCI has several markets that were just flat out of channel capacity," said **Rich Fickle**, HITS senior vice president.

"Digital **television** allows an operator to use existing bandwidth to expand channels dramatically. They can become competitive...

...people to HITS to get those," Mr. Ramo said.

TVN's package includes 32 near **video -on- demand movie** channels, 40 digital music channels and an interactive program guide for customers, while opening the...

...of pay-per-view," said Mr. Ramo, adding the PPV buy rates soar when near **video -on- demand** services are put in place.

TVN charges cable operators a fee and shares a portion of PPV revenue. TVN digital **television** is being tested in about half a dozen markets.

Rival in the wings

While TVN...

...fit with TCI's program lineups, he said, it's not completely compatible with other **multiple system operators**.

Time Warner Cable plans to test the service in a single market later this year.

As happy as digital **television** makes cable operators, they acknowledge it's not an easy sell unless customers get a...

PRODUCT NAMES: Cable **television** (CATV) systems operators (484020)

---

9/3,K/21 (Item 21 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2005 The Gale Group. All rts. reserv.

00945968 Supplier Number: 23502103 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Time Warner Eyes HITS**

(Time Warner Cable is considering the use of Headend In The Sky as its source of digitized programming)

Multichannel News, v 17, n 18, p 10

April 29, 1996

DOCUMENT TYPE: Journal ISSN: 0276-8593 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 199

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...delivery of between 500,000 and 1 million boxes that will be used for supporting **video -on- demand** as well as expanded pay-per-view from the outset.

Responses to the RFP were...

...welcome Time Warner Cable's participation "with open arms and maybe a dozen roses," said **Richard Fickle**, vice president of marketing and new

business development at HITS.

HITS plans to deliver 80 channels of **movies** and other fare to TCI and other cable headends around the country, permitting a digital...

PRODUCT NAMES: Cable **television** (CATV) systems operators (484020...

... **Satellite** communications services (489000)

---

9/3,K/25 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

02136909 69074104

**Screen Grab**

Fahey, Jonathan

Forbes PP: 052-053 Mar 5, 2001

ISSN: 0015-6914 JRNL CODE: FBR

WORD COUNT: 962

...DESCRIPTORS: **Satellite television** ; ...

... **Television** advertising

...ABSTRACT: poised to effectively monopolize a growing market. It is not. Set-top box manufacturers and **satellite** TV providers are fighting Gemstar to keep their own guides, and now four large cable!..

...TEXT: Gemstar-TV Guide has a near-monopoly on navigational tools for the next generation of **television** services. It's not going to last.

Henry Yuen's is a tantalizing story: A...

...Yuen sees it, TV Guide Interactive is essential for maneuvering through the thicket of digital **television**, with its hundreds of channels, Internet access and **video -on- demand**.

Reality, though, is about to dissolve Yuen's vision. His stock, which at \$51 is...

...poised to effectively monopolize a growing market. It isn't.

Set-top box manufacturers and **satellite** TV providers are fighting Gemstar to keep their own guides, and now four large cable...

...changing features. AT&T wants control over services such as Internet access, e-mail and **video -on- demand**.

"The guide is an important feature," says **Richard Fickle**, AT&T's head of interactive TV. "But it is not the main menu or portal for all the things we want to do on the **television**."

There's yet another catch for Gemstar: TV Guide Interactive was built for a high...

...puny, 33-megahertz processors-too slow for code-heavy TV Guide Interactive to easily add **video -on- demand** and the like. TV Gateway's code, in contrast, lives at the cable company instead...

...these anti-Yuen steps? "The cable industry hates not having a choice,"

says Forrester Research **television** analyst Joshua Bernoff. "Until now, if you wanted to deliver an electronic program guide, you...

...other big players are digging in: Set-top box makers Scientific Atlanta and Pioneer and **satellite** provider EchoStar have lobbied antitrust actions against Gemstar after Yuen hit them with patent suits...

...on 50 years of TV Guide magazine and an admittedly clever product for next-generation **televisions**, the company is not going to disappear. But Gemstar's future isn't nearly as...

...cable subscribers in the U.S. at the end of 2000.

11.1 million digital **television** subscribers at the end of 2000.

670,000 households expected to sign up for digital **television** every month through 2001.

90% of Gemstar-TV Guide's revenues come from mature products...

---

9/3,K/26 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

02096325 64356952

**Digital delight**

Barthold, Jim

Telephony v239n20 PP: 34 Nov 13, 2000

ISSN: 0040-2656 JRNL CODE: TPH

WORD COUNT: 595

DESCRIPTORS: Cable **television** industry...

...Interactive **television** ;

...TEXT: WorldGate Communications can do for its 2.5 million "thin client" digital set-tops.

The **multiple systems operator** collaborated with WorldGate to develop interactive services for systems passing more than 100,000 homes...

...2000 set-tops.

WorldGate represents the "third prong" of AT&T's interactive strategy, said **Rich Fickle**, AT&T Broadband's Headend In The Sky senior vice president and program director for...

...users, this is not the same kind of service," Fickle insisted, noting that "Internet over **television** is a browser. You can't download and store on a hard drive. You can...

...or rent, those types of things," he said.

The WorldGate service currently does not include **video -on- demand** ( **VOD** ), although AT&T Broadband already announced its intention to launch **VOD** in Atlanta. "WorldGate will allow us to play **VOD** and ITV in the same markets going forward if we want to," Fickle said.

WorldGate...

---

9/3,K/28 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

08947896 Supplier Number: 77675322 (USE FORMAT 7 FOR FULLTEXT)  
**ITV Gets Push from Liberate-HITS Deal. (interactive television services to be offered by AT and T Headend In The Sky, using software from Liberate Technologies Inc.) (Statistical Data Included)**  
BAUMGARTNER, JEFF; Donohue, Steve  
Multichannel News, v22, n35, p1  
August 27, 2001  
Language: English Record Type: Fulltext  
Article Type: Statistical Data Included  
Document Type: Magazine/Journal; Trade  
Word Count: 1740

(USE FORMAT 7 FOR FULLTEXT)

**ITV Gets Push from Liberate-HITS Deal. (interactive television services to be offered by AT and T Headend In The Sky, using software from...**

TEXT:

In a move that could figure heavily into AT&T Broad band's initial interactive- **television** deployment strategy, Liberate Technology last Wednesday became the first middleware provider to ink a deal...

... according to sources familiar with the situation. HITS is a wholly owned subsidiary of the **MSO**.

HITS and Liberate expect to start offering a suite of ITV applications to HITS affiliates in the fourth quarter of this year. Using a **satellite** -based broadcast model, HITS will beam news, enhanced TV and games to cable headends.

The companies are completing technical integration at the HITS **satellite** -broadcast center in Littleton, Colo.

As part of its ongoing ITV strategy, AT&T Broadband...

...simple and low-cost and low-barrier as we could," said HITS senior vice president **Rich Fickle**, who added that the platform will market a package that consists of Liberate middleware technology...

...up with content partners for a "starter set" of applications that operators can download via **satellite** and distribute to consumer set-tops.

Fickle wouldn't say which applications will be offered...

...participate in Liberate's PopTV program. Programmers who currently participating in that initiative include Bloomberg **Television**, E! Entertainment **Television**, Fox News Channel, Fox Sports Net, Lifetime, Oxygen and The Weather Channel.

Though programmers have...

...although future upgrades will leverage interactive cable plant to deliver more advanced applications such as **video -on- demand**, interactive advertising and electronic commerce.

The initial HITS ITV package will absorb about 5 megabits...

...mirrors how the company leverages TV Guide Interactive today.

"As we move into interactive advertising, ( **television** commerce) or polling surveys and personalized data for stocks, those things will require back-channel...

...Cable's base of 2.5 million digital customers in the "high single digits," said **MSO** spokesman Mike Luftman.

Though no conversations with Liberate and HITS are underway regarding the ITV...on whether Microsoft is working on cutting a similar



deal for a spot on the **satellite** platform.

Graczyk also emphasized that the ITV business is still at a very early stage...

...prompted AT&T Broadband to clarify its position in a press release issued Thursday.

The **MSO** reiterated that the deal is not exclusive and has "no impact" on prior plans to...

...has also pieced together a similar system to serve operators that choose to use a **satellite** network delivery method, such as HITS, to deliver ITV applications to legacy DCT-2000s.

"We...

...onto some AT&T Broadband systems provides a stop-gap solution for straightening out the **MSO** 's original ITV plans, formed under the old Tele-Communications Inc. regime, for the more...

...new customers and provide consumers with some sort of advanced services to compete with the **satellite** players," he said.

At the same time, a stripped-down offering would prepare those customers...

PRODUCT NAMES: \*4843000 ( **Satellite** Television Services); 7372690  
(Communications Software NEC)

NAICS CODES: 51334 ( **Satellite** Telecommunications); 51121 (Software  
Publishers)  
20010827

---

9/3,K/29 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08927027 Supplier Number: 77411762 (USE FORMAT 7 FOR FULLTEXT)

**AT&T'S HITS AND LIBERATE COMPLETE MILESTONE FOR LOW-COST ITV SERVICES.**

PR Newswire, p1862

August 22, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 785

**Satelli** te delivery to offer services for 140 cable system operators and six million deployed digital set...

...to be available in fourth quarter 2001, will allow interactive content to be broadcast over **satellite** to cable headends and transmitted to cable customers. The initial suite of ITV services will...

...information services, enhanced TV and interactive games. Additional content choices will be added based on **MSO** input.

HITS and Liberate have successfully completed a technical trial and have begun final technical integration into the HITS **satellite** broadcast center.

HITS and Liberate also plan to offer future upgrades that will allow cable

operators to add two-way services such as **video** on demand , interactive advertising and e-commerce.

"Liberate's software will let us deliver interactive **television** services to our cable operator customers as soon as we deploy it on the HITS...

...new applications without having to invest in costly server infrastructures or set-top upgrades," said Rich Fickle, senior vice president of HITS. "Liberate's open architecture gives us the flexibility to add...

...S. market because it will give HITS affiliated cable operators a way to provide enhanced **television** to millions of TV viewers," said Mitchell Kertzman, CEO, Liberate Technologies. "We believe that a...

...in the United States.

About HITS

HITS was founded in 1994, delivers digitally-compressed cable **television** programming signals to cable operators around the United States, serving more than 2,000 cable...

...Technologies is the premier provider of open platforms for delivering enhanced content and services to **television** viewers around the world. Liberate's client and server software, based on Internet and broadcasting standards, is the infrastructure platform supporting digital consumer services delivered by cable and **satellite television** operators, telecommunications companies, and Internet service providers. Headquartered in San Carlos, California, the company has...

PRODUCT NAMES: \*4833000 ( **Television** Broadcasting)

SIC CODES: 4833 ( **Television** broadcasting stations)

NAICS CODES: 51312 ( **Television** Broadcasting)

20010822

---

9/3,K/30 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08926691 Supplier Number: 77409911 (USE FORMAT 7 FOR FULLTEXT)

**AT&T's HITS(R) and Liberate Complete Milestone for Low-Cost ITV Services.**

PR Newswire, pNA

August 22, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 804

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

**Satellit e** Delivery to Offer Services for 140 Cable System Operators ... to be available in fourth quarter 2001, will allow interactive content to be broadcast over **satellite** to cable headends and transmitted to cable customers. The initial suite of ITV services will...

...information services, enhanced TV and interactive games. Additional content choices will be added based on **MSO** input.

HITS and Liberate have successfully completed a technical trial and have begun final technical integration into the HITS **satellite** broadcast center.

HITS and Liberate also plan to offer future upgrades that will allow cable operators to add two-way services such as **video** on **demand**, interactive advertising and e-commerce.

"Liberate's software will let us deliver interactive **television** services to our cable operator customers as soon as we deploy it on the HITS...

...new applications without having to invest in costly server

infrastructures or set-top upgrades," said **Rich Fickle**, senior vice president of HITS. "Liberate's open architecture gives us the flexibility to add...

...S. market because it will give HITS affiliated cable operators a way to provide enhanced **television** to millions of TV viewers," said Mitchell Kertzman, CEO, Liberate Technologies. "We believe that a...

...in the United States.

About HITS

HITS was founded in 1994, delivers digitally-compressed cable **television** programming signals to cable operators around the United States, serving more than 2,000 cable...

...Technologies is the premier provider of open platforms for delivering enhanced content and services to **television** viewers around the world. Liberate's client and server software, based on Internet and broadcasting standards, is the infrastructure platform supporting digital consumer services delivered by cable and **satellite television** operators, telecommunications companies, and Internet service providers. Headquartered in San Carlos, California, the company has...

PRODUCT NAMES: \*4833000 ( **Television** Broadcasting)

SIC CODES: 4833 ( **Television** broadcasting stations)

NAICS CODES: 51312 ( **Television** Broadcasting)

20010822

---

9/3,K/31 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08922770 Supplier Number: 77396216 (USE FORMAT 7 FOR FULLTEXT)

**The Bandies 2001 Announces Judges for This Year's Programs; Additional Sponsors Join Cahners Television and Telecom Group and ICTV as Sponsors for This Year's Event.**

Business Wire, p0151

August 22, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 562

**The Bandies 2001 Announces Judges for This Year's Programs; Additional Sponsors Join Cahners Television and Telecom Group and ICTV as Sponsors for This Year's Event.**

... judges and new sponsors for this year's event.

Sponsors include: AT&T Broadband, Cahners **Television** and Telecom Group, Game Show Network, ICTV, ITVT, Kagan Capital Management, Liberate, Microsoft, Myers Reports...

...Show celebrates the best efforts of the broadband industry's leading creators to extend traditional **television** with new technologies and tools.

This year, judging will be organized into screening juries in...

...Development, Wink Communications

-- Rosemary Danon - VP, Liberty Livewire

-- Jim Davis - Deputy Bureau Chief, the451.com

-- Rich Fickle - SVP HITS, AT&T Broadband

-- Diana Gagnon Hawkins - Founder, Interactive Associates

-- Dr. Richard Green - President and CEO, Cable **Television** Laboratories

-- Pam Halling - SVP Marketing, Insight Communications

-- Dale Herigstad - Creative Director, H Design

-- Mark Hess...

...Tritschler - Vice President, Marketing, Liberate  
Developed with the support and collaboration of the California Cable **Television** Association, the event is being co-marketed with The Western Show, the broadband industry's...

...<http://thebandies.com>.  
About The Bandies  
The Bandies is the world's pre-eminent interactive **television** and broadband content awards show. Award definition, judge selection, and the judging process are guided...

...TV Content or Application

- Best Enhanced TV Advertising
- Best Virtual Channel Content
- Best Time Shifting (VOD or PVR) Solution
- Best Broadband PC Entertainment Content
- Newest New Thing (Award for Innovation)
- Advanced...

...Western Show is the nation's largest broadband industry convention. Sponsored by the California Cable **Television** Association (CCTA) and scheduled for Nov. 27-30 at the Anaheim Convention Center, The Western...  
**20010822**

---

9/3,K/32 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

08739098 Supplier Number: 75620653 (USE FORMAT 7 FOR FULLTEXT)  
**AT&T'S ITV BACKTRACK.** (AT and T Broadband Co. will use DCT-5000 modems from Motorola Broadband Communications Sector, but will not fully utilize their capabilities) (Brief Article)  
DONOHUE, STEVE; Baumgartner, Jeff  
Multichannel News, v22, n24, p1  
June 11, 2001  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Trade  
Word Count: 1477

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
MS O Won't Activate 5000s' Modems  
AT&T Broadband is retreating from its long-held plans to create an interactive- **television** platform based on the most advanced digital set-tops.

Instead, executives said last week, the **MSO** will focus on offering ITV through the 3 million thin-client set-tops it has already deployed, and through new "enhanced-basic" set-tops that it will order.

**MSO** executives said they're shifting their focus away from the advanced-digital service because they...

...to focus on generating additional revenue from the 3 million thin-client set-tops the **MSO** has already deployed.

AT&T will also finally deploy the Rolls-Royce of digital set...

...Another large set-top order from AT&T may also be in the works. The **MSO** plans to buy new "enhanced-basic" set-tops that will contain memory allowing for personal...

...Show, Motorola plans to discuss plans for a "midrange" box, dubbed the DCT-2500.

The **MSO** may select one or several vendors for the enhanced-basic boxes, Ofsentjuk said. While there...

...Peach Networks last year.

WRITE CODE, VENDORS

In another significant strategy change, Ofsentjuk said the **MSO** will no longer rely on internal staff to develop its ITV platform, and will instead...

...the DCT-2000.

"The primary focus is on the DCT-5000," former director for interactive **television** Rich Fickle said at the time. He now runs AT&T's Headend In The Sky platform...the DCT-5000, but Ofsentjuk said last week that he did not know if the **MSO** would deploy RespondTV this year, as planned.

"It's not that we're walking away...

...date, AT&T's ITV initiatives consist of a deployment of Diva System Corp.'s **video -on- demand** service in Atlanta, and WorldGate's Internet TV product in Waterloo and Cedar Falls, Iowa...

PRODUCT NAMES: \*3661276 (Broadband Modems NEC); 4834000 (Cable

Television Services)

20010611

---

9/3,K/33 (Item 7 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08697869 Supplier Number: 75345321 (USE FORMAT 7 FOR FULLTEXT)

**REPEAT/TVGateway Signs Multi-Year Distribution Agreement and Completes**

**Integration With AT&T'S Headend In The Sky.**

Business Wire, p2251

June 7, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 920

... a package of digitally compressed video and audio services to cable operators using a sophisticated **satellite** distribution network. The addition of TVGateway's IPG to HITS' offerings greatly increases the availability of the guide to millions of potential households.

The HITS platform serves more than 200 **multiple system operators**, reaching 2000 cable headends throughout the United States.

"Our goal is to provide our cable...

...Adding TVGateway gives our customers the flexibility to choose the applications for their customers," said **Rich Fickle**, AT&T Broadband's senior vice president of HITS. "By combining TVGateway's guide with...  
...AT&T's Headend in the Sky

HITS, founded in 1994, delivers digitally-compressed cable **television** programming signals to cable operators around the United States. HITS currently compresses more than 150...

...is an interactive TV platform provider offering a wide range of interactive solutions to cable **television** operators, including interactive program guides, open standards software and WorldGate's patented Channel HyperLinking(SM...

20010607

---

9/3,K/34 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

08697739 Supplier Number: 75343359 (USE FORMAT 7 FOR FULLTEXT)  
**TVGateway Signs Multi-Year Distribution Agreement and Completes Integration With AT&T'S Headend In The Sky.**  
Business Wire, p2129  
June 7, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 907

... a package of digitally compressed video and audio services to cable operators using a sophisticated **satellite** distribution network. The addition of TVGateway's IPG to HITS' offerings greatly increases the availability of the guide to millions of potential households.

The HITS platform serves more than 200 **multiple system operators**, reaching 2000 cable headends throughout the United States.

"Our goal is to provide our cable...

...Adding TVGateway gives our customers the flexibility to choose the applications for their customers," said **Rich Fickle**, AT&T Broadband's senior vice president of HITS. "By combining TVGateway's guide with...  
...AT&T's Headend in the Sky

HITS, founded in 1994, delivers digitally-compressed cable **television** programming signals to cable operators around the United States. HITS currently compresses more than 150...

...is an interactive TV platform provider offering a wide range of interactive solutions to cable **television** operators, including interactive program guides, open standards software and WorldGate's patented Channel HyperLinking(SM...

20010607

---

9/3,K/36 (Item 10 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

08485128 Supplier Number: 72659468 (USE FORMAT 7 FOR FULLTEXT)  
**AT&T Plans Exec Shuffle, Braden Rises. (AT and T Broadband L.L.C. reorganizes, creates new Broadband Services division, headed by Greg Braden) (Brief Article) (Statistical Data Included)**

DONOHUE, STEVE  
Multichannel News, v22, n12, p1  
March 19, 2001  
Language: English Record Type: Fulltext  
Article Type: Brief Article; Statistical Data Included  
Document Type: Magazine/Journal; Trade  
Word Count: 813

... vice president of advanced technology Jim Wood recently resigned from the company, a spokeswoman said.

**Rich Fickle** will remain senior vice president of HITS, and report to Bater. But he is dropping...

...telephony until the product is strong enough to be a lifeline service, Braden said. The **MSO** is currently conducting an IP-telephony trial in Boulder, Cob., he added.

AT&T will...

PRODUCT NAMES: \*4834000 (Cable Television Services); 4811000  
(Telephone Service)  
20010319

---

9/3,K/37 (Item 11 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

08111787 Supplier Number: 67590268 (USE FORMAT 7 FOR FULLTEXT)  
**ITV Blossoms Beyond Top 2.(interactive television industry involves more than just the two leading firms) (Industry Overview)**  
STUMP, MATT  
Multichannel News, v21, n48, p159  
Nov 27, 2000  
Language: English Record Type: Fulltext  
Article Type: Industry Overview  
Document Type: Magazine/Journal; Trade  
Word Count: 3203

**ITV Blossoms Beyond Top 2.(interactive television industry involves more than just the two leading firms) (Industry Overview)**

... the development charge for specific interactive applications.

In October, Charter Communications Inc. became the first **MSO** to publicly commit to a set-top-based personal video recording technology by signing a...

...announced its own ReplayTV deal.

Insight Communications Co. Inc. has been an early proponent of **video -on- demand**, having launched Diva Systems Corp.'s **VOD** service in Rockford, Ill.; Evansville, Ind.; and Columbus, Ohio. Insight also bought into Source Media...

...headend server-based interactivity from day one.

Cablevision Systems Corp. is set to rewrite the **MSO** digital set-top rulebook in December, when it rolls out Sony Corp. of America's...

...5000" into the field this year.

Time Warner Cable's 2001 focus will be deploying **VOD** through the Scientific-Atlanta Inc. "Explorer 2000" set-top. But the exact nature of future...

...will likely be defined by its parent's merger partner, America Online

Inc.

Aside from VOD , Time Warner's said very little publicly about its vision for interactive TV as it...

...Inc. has become a strong proponent of interactive services, having launched Wink Communications Inc. and VOD with Diva. It's also working out details of a rollout of WorldGate Communications Inc...

...million Wink-enabled homes by year's end, he said.

Charter recently launched Diva's VOD service in Los Angeles and is evaluating how many VOD launches it will take on next year.

"We're going to be aggressive," Silva said...

...already deployed. The integration work took less than 100 days, Silva said.

Silva expects a VOD equipment payback in 40 to 48 months, or perhaps sooner, depending how many new revenue streams appear. Charter offers 300 VOD titles in Los Angeles and is on its way to 450.

"We will do trials...

...Angeles call center. Ethnic programming, high-school sports and other local programming are all possible VOD possibilities, Silva said.

"We're trying not to limit ourselves," Silva said. "They are enabling...

...would incorporate Macromedia Inc.'s "Flash" technology and streaming media.

Services such as Wink and VOD would likely appear as icons on Digeo's main opening screen.

Charter is also jumping...

...customers receive SourceMedia's local guide, Source's interactive program guide, access to Diva's VOD service and three groups of digital channels.

"We looked at the competitive landscape and wanted with extra revenue coming from additional outlets and pay-per-view/ video on demand .

Using Liberate Technologies software, Insight is able to run most applications from a headend-based...

...100 percent by year's end, she said.

Cox

Cox Communications Inc. has rolled out VOD in San Diego, and soon will do so in Phoenix, using Concurrent Computer Corp. servers...

...to Dallas Clement, senior vice president for strategy and development, Cox is working on making VOD work with its base of Motorola boxes.

About half of Cox's 700,000 digital...

...project.

"The S-A boxes have more stability," he said, and were Cox's first VOD focus point. "The next thing is, we turn to the Motorola box.

Cox continues lab...

...smarter on that this year and next year," Clement said.

Cox is looking at more VOD rollouts next year that will include research into what other content customers want on a VOD system, Clement said.

As Clement looks forward, he sees enhanced TV services, Internet browsing, walled...

...deployed, Clement said it's important to make sure the customer's electronic mail and VOD experiences are the same over both pieces of



hardware.

Cox has to "make sure it...

...MATT STUMP

Coming soon to an AT&T Broadband 2000-series set-top near you: **Video -on- demand**, Internet-over-TV, managed-content areas and simple gaming applications.

Those are the four key...

...boxes.

It will also work on bringing the next-generation 5000 to market, according to **Rich Fickle**, AT&T Broadband's vice president of marketing and new business.

AT&T is already rolling out Diva Systems Corp.'s **VOD** system in Los Angeles, San Francisco, Atlanta and Pittsburgh. And AT&T is adding WorldGate...streaming and personal video recording also are getting some attention.

"Video streaming is not unlike **VOD** in some ways," Fickle said. "We think the functionality is important to provide consumers more...use their Websites creatively, they should be able to migrate content back and forth between **television** and the Internet," Washer said. MCN

20001127

---

9/3,K/38 (Item 12 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

08053736 Supplier Number: 67004923 (USE FORMAT 7 FOR FULLTEXT)

**AT&T Names Three WorldGate Cities. (AT&T Broadband launches WorldGate Communications product) (Brief Article)**

DONOHUE, STEVE

Multichannel News, v21, n46, p12

Nov 13, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 480

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Broadband plans to launch WorldGate Communications Inc.'s product in three cities, but the top **MSO** says it's still not sure when or how it might market Internet-over- **television** services to the rest of the United States.

... mail and Internet access. The company will experiment with pricing on the other systems, said **Rich Fickle**, AT&T Broadband program director of ITV.

One striking aspect is that AT&T will...

...TV Guide," Fickle said.

Fickle wouldn't say whether WorldGate would be involved with the **MSO** 's advanced digital rollout, set to begin next year. The company plans to conduct trials...

...after it is sold to AT&T Corp. Boylan cited assurances he received from the **MSO**.

"Unfortunately Cablevision selected somebody other than the guide that AT&T ultimately plans to choose...

20001113

9/3,K/39 (Item 13 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07975823 Supplier Number: 66622628 (USE FORMAT 7 FOR FULLTEXT)  
**AT&T Broadband and WorldGate Announce Interactive Television Deployment**  
in Three Cities.  
PR Newswire, pNA  
Nov 6, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 874

**AT&T Broadband and WorldGate Announce Interactive Television Deployment  
in Three Cities.**

Extends AT&T's Advanced Interactive **Television** Approach  
ENGLEWOOD, Colo. and TREVOSE, Pa., Nov. 6 /PRNewswire/ --  
AT&T Broadband and WorldGate will...

...boxes in three cities, the companies said today. The deployments add the nation's largest **MSO** to WorldGate's list of affiliates, and extends AT&T Broadband's commitment to offering...

...This new enhanced service, coupled with the company's continuing development of an advanced interactive **television** product and launch plans for **video on demand**, clearly positions AT&T Broadband as a leader in advanced video offerings.

"By working with...

...our customers convenient access to interactivity through a medium they are already comfortable with -- the **television** -- and with options available at the simple touch of a button," said Dan Somers, president...

...a leading innovator of advanced video products."

AT&T Broadband is introducing a customized interactive **television** experience, created by WorldGate and AT&T Broadband specifically for cable customers using currently deployed...

...set top boxes, without the need for any in-home installations or disruption. The interactive **television** service was recently introduced as a digital cable enhancement for customers in Cedar Falls and...

...in working with AT&T Broadband we have been able to develop a unique interactive **television** experience for their customers that will bring the best of the Internet and localized content...

...customized local and national interactive content, and will be able to link directly from the **television** program they are watching to a related web site using the Channel HyperLinking capability of...

...of AT&T, is the nation's largest broadband services company, providing analog and digital **television** entertainment services to about 16 million customers across the nation. The company also provides advanced...

...offers the cable industry a full line of Internet based, hi-speed interactive and enhanced **television** services. WorldGate is deployed, has agreements to deploy or is in trials to deploy its service with 34 **multiple system operators** in 17 countries worldwide, including four of the top six **MSOs** in the U.S...

...code 548711.

Editor's note -- AT&T Broadband SVP of HITS & Program Director of iTV **Rich Fickle** and WorldGate Chairman and CEO Hal Krisbergh will be hosting a media Q&A session...

PRODUCT NAMES: \*4800000 (Telecommunication Services); 4834000 (Cable Television Services)  
20001106

---

9/3,K/40 (Item 14 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07876512 Supplier Number: 65775732 (USE FORMAT 7 FOR FULLTEXT)

**Playing the Field, AT&T Tests Liberate. (Brief Article)**

DONOHUE, STEVE

Multichannel News, v21, n39, p6

Sept 25, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 483

...faced software integration delays with both AT&T and United Pan Europe Communications Inc..

The **MSO** 's deal with Liberate, to test such TV-based applications as electronic mail and video...

...platform), and keep deploying it," AT&T senior vice president and program director for interactive **television Rich Fickle** said.

If it turns out that Liberate's software performs better than Microsoft's TV...

...said AT&T is also evaluating a new middleware solution from WorldGate Communications Corp. The **MSO** is also using a middleware platform from Canal Plus U.S. Technologies on its Jacksonville...

...rollout are Liberate, Microsoft and enhanced-TV company Respond TV Inc.

But Fickle said the **MSO** has actually signed deals with 14 different companies for the platform, though it is holding...

...vendor and a calendar application vendor.

AT&T also plans to announce deals with multiple **video -on- demand** vendors to support its DCT-5000 rollout, but has no set timetable for the announcements...

PRODUCT NAMES: \*4811000 (Telephone Service); 7372000 (Computer Software); 4834250 (Interactive **Television Services**)

20000925

---

9/3,K/41 (Item 15 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07692606 Supplier Number: 63915601 (USE FORMAT 7 FOR FULLTEXT)

**Respond TV Signs Up AT&T For Advanced-Box Rollout. (Brief Article). (Statistical Data Included)**

DONOHUE, STEVE

Multichannel News, v21, n29, p107

July 17, 2000

Language: English Record Type: Fulltext  
Article Type: Brief Article; Statistical Data Included  
Document Type: Magazine/Journal; Trade  
Word Count: 769

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

RespondTV Inc. may have struck the mother lode for enhanced- **television** players, reaching an affiliate deal with AT&T Broadband last week. ... operator. It's also the first deal AT&T Broadband has reached with any enhanced- **television** player to support its rollout of high-end Motorola Broadband Communications Sector "DCT-5000" set-tops. The **MSO** plans to begin deploying those boxes by the end of the year.

"It should make...

...week, most of RespondTV's agreements were with advertisers and programmers, including Scripps Networks, Bloomberg **Television**, Domino's Pizza LLC and Ralston Purina Co., which will use the company's infrastructure to deliver enhanced ads and programming.

Under terms of the AT&T Broadband deal, the **MSO** agreed to pass through the triggers RespondTV needs to deliver its enhanced ads and programming...

...to RespondTV's focus on open protocols, including HTML (HyperText Markup Language) and ATVEF (Advanced **Television** Enhancement Forum), senior vice president and program director for interactive **television** **Rich Fickle** said.

The **MSO** also liked RespondTV's focus on launching on advanced digital set-tops and ability to...

...T Broadband would still be open to striking similar deals with Wink or other enhanced- **television** vendors. The **MSO** will probably choose two or three enhanced- **television** players to include in its user interface, he added.

AT&T Broadband would also be...

...Fickle said. "(Networks) could do this. We could do it ourselves, too," he added.

The **MSO** currently has no plans to offer enhanced programming and advertising through the lower-end digital...

...GE Capital Corp., Integrity Partners, Sequoia Partners, Showtime Networks Inc., Tribune Media Ventures and United **Television** Inc.

20000717

---

9/3,K/42 (Item 16 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07632346 Supplier Number: 63643791 (USE FORMAT 7 FOR FULLTEXT)

**Interactive TV: 'This is finally the real rollout'. (Brief Article)**

WHITNEY, DAISY

Electronic Media, v19, p24

July 17, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 994

Several **multiple system operators** plan trials and market introductions this fall, to be followed by commercial deployment. Much is ...

...between \$10 and \$25 per month, Ms. Cohn said. The operator is also rolling out **video -on- demand** this summer.

Time Warner launching VOD

**Video -on- demand** is at the heart of Time Warner Cable's interactive plans.

The operator introduced the...  
...systems later this year and early 2001. The service offers about 100 titles, and a **movie** costs \$4, said Kevin Leddy, Time Warner's senior vice president of new product development...

...testing Internet on TV via Worldgate in Willow Grove, Pa., and plans to launch three **video -on- demand** trials by the end of the year. Commercial rollouts should follow, based on customer reaction...

...a user could, for instance, call up more information on a favorite sports star, said **Rich Fickle**, program director for interactive **television**.

The core level of service will allow for e-mail, an interactive calendar and an...

...the end of this year. In the initial launch, the operator will offer e-mail, **video -on- demand** and Web-enhanced TV but not full Internet access. Commercial rollout should begin aggressively in...

PRODUCT NAMES: \*4834250 (Interactive **Television** Services)  
20000717

---

9/3,K/45 (Item 19 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

07433132 Supplier Number: 62453057 (USE FORMAT 7 FOR FULLTEXT)  
**Ops Eye Big Digital-Cable Penetration. (Brief Article) (Statistical Data Included)**  
HOGAN, MONICA  
Multichannel News, v21, n20, p19  
May 15, 2000  
Language: English Record Type: Fulltext  
Article Type: Brief Article; Statistical Data Included  
Document Type: Magazine/Journal; Trade  
Word Count: 350

... Show panel here last Monday about transitioning to digital.  
As the technology improves and the **MSO** is able to offer new interactive services, he added, "Ultimately, 50 percent (digital) penetration would...

...than analog, at a rate of two-to-one.

Willner said advanced digital services, including **video -on- demand** and interactive **television**, have not only slowed subscriber chum to the direct-broadcast **satellite** competition, but also brought back customers who had previously left for DBS.

For similar competitive...

...subscriber-line services are more widely deployed.

AT&T Broadband senior vice president of interactive **television**

**Richard Fickle** predicted that digital set-top boxes incorporating Web devices could eventually be given away free...

PRODUCT NAMES: \*4834000 (Cable **Television** Services)

20000515

---

9/3,K/46 (Item 20 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

07338020 Supplier Number: 62123259 (USE FORMAT 7 FOR FULLTEXT)

**DIGITAL CABLE ROLLOUT PRESSED. (Industry Trend or Event) (Brief Article)**

Television Digest, v40, n20, pNA

May 15, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Newsletter; Trade

Word Count: 504

... s projected gain of at least 3.5 million customers in 2000.

While Sie stressed **movies**, sports and other video services such as Encore's for digital platforms, other speakers emphasized cheap Internet access, **video-on-demand (VOD)**, electronic program guides, interactive applications. "The real challenge for the industry is once you get...

...said cheap Web service such as WorldGate offers could boost digital penetration significantly.

Zucker said **VOD** services such as his at Diva could make difference by offering more choice to cable...

...plant would be upgraded to 2-way by end of year: "DBS can't do **VOD**."

Among things that "tremendously" would help rollout of high-speed data service is retail sales...

...and it happened because company expanded its footprint and built capacity in service and installation.

**Richard Fickle**, senior vp, AT&T Broadband HITS (Headend In The Sky), said interactive TV is area...

PRODUCT NAMES: \*3661274 (Cable Modems); 4834000 (Cable **Television** Services); 4833300 (Direct Broadcast **Satellite Television** Services); 4800000 (Telecommunication Services)

20000515

---

9/3,K/47 (Item 21 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

06948791 Supplier Number: 58546520 (USE FORMAT 7 FOR FULLTEXT)

**AT&T'S HITS Starts to Suffer Misses.**

DONOHUE, STEVE

Multichannel News, v20, n51, p38

Dec 13, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1237

... systems that buy programming through HITS, many networks have banded together to lease their own **satellite** transponders and bypass HITS.

With digital-cable penetration increasing and more MSOs defining their digital...

...from four programmers using their own transponders, two of which (E! Networks and A&E **Television** Networks) are also leasing transponder space to other networks.

In addition to A&E and...

...The Biography Channel, Do It Yourself, CNBC Business 24, ZDTV, The Independent Film Channel, Lifetime **Movie** Network and MuchMusic USA.

E!'s transponder includes its Style digi-net, Romance Classics, Country Music **Television**, ESPNNews, ESPN Classic, Bloomberg **Television**, Toon Disney and SoapNet, Multichannel News reported in November.

Fox Family Worldwide Inc. is forming...

...their subscribers and pleasing those subscribers is going to drive a shakeout," Zaslav predicted. "The **MSO** will look at every (transponder) so they can pick and choose the best. Or the...

...on the new transponders, including Ovation - The Arts Network, Comedy Central, National Geographic Channel, Wisdom **Television**, Newsworld International (NWI), Fanfare: The Classical Music Channel, Trio, GoodLife **Television** Network, America's Voice and BET on Jazz, sources said.

It will cost each network...

...threat. Rather, the company thinks it's "healthy" for the industry," HITS senior vice president **Rich Fickle** said.

"If you look at a picture bigger than HITS, the master plan is not...

...like we're not going with Athena or HITS," one executive from a top-10 **MSO** said. "We're leaning heavily against it. We don't need a middleman because our...Since Cable One Inc.'s digital package doesn't include a digital-basic tier, the **MSO** plans to mostly buy programming directly from programmers, CEO Tom Might said.

"It's more...

...We're starting to do more quotes for anywhere from 50 to 400 units per **MSO**," said Stephen King, senior vice president and general manager of Terayon's video-business unit...

...other MSOs, which would make it a competitor to HITS, spokesman Mike Luftman said.

The **MSO** -- which expects to count 400,000 digital-cable subscribers soon -- wants to focus on its...

PRODUCT NAMES: \*3662237 (Digital **Television** Broadcasting Equipment);

3661223 (Digital Carrier Systems)

NAICS CODES: 33422 (Radio and **Television** Broadcasting and Wireless Communications Equipment Manufacturing); 33421 (Telephone Apparatus Manufacturing)

19991213

---

9/3,K/50 (Item 24 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

05663026 Supplier Number: 50123951 (USE FORMAT 7 FOR FULLTEXT)

**TVN's targeted digital approach**

Brown, Peter J.

Broadcasting & Cable, v128, n24, p42

June 8, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Magazine/Journal; Trade

Word Count: 1450

... digital cable service on the air.

Looking to extend its pay-per-view offerings from **satellite** dish owners to cable operators, TVN has systems cranking through beta tests of its digital...

...as a cable competitor, offering pay-per-view service for consumers owning backyard C-band **satellite**. When availability of small, cheap DBS dishes shrank that business dramatically, TVN hooked onto the...

...DCTV difference is subtle but substantial. First, DCTV is focusing on what Ramo calls near- **video** -on- **demand** -initially, 40 channels of PPV with **movies** on half-hour start times, live sports and special events. The service also features 40...

...system operators with a short-term solution until they can acquire the full DCTV package. **Rich Fickle**, senior vice president of HITS at TCI Ventures Inc., contends that rather than competing, HITS and TVN perform complementary functions.

One **MSO** executive remains open to the possibility that TCI might acquire its pay per view from...

...each other, politely, while reinforcing the idea that the two services complement each other. Another **MSO** executive indicates that he is keeping all his options open with respect to PPV sources...

...offers a turnkey solution," says Ron W. Martin, executive vice president and COO of Buford **Television**, Inc./Friendship Cable TV in Tyler, Tex.

"HITS and TVN seem to work very well...

PRODUCT NAMES: \*4838000 (Radio & **Television** Services NEC)

19980608

---



9/3,K/55 (Item 29 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

04369719 Supplier Number: 46408690 (USE FORMAT 7 FOR FULLTEXT)

**REQUEST TV TO GIVE TCI 35 NEW CHANNELS**

Media Daily, v4, n5, pN/A

May 24, 1996

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 282

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

...that could give the cable industry more competitive juice in the fight against direct-broadcast **satellite** (DBS) services like DirecTv.

... they need to use digitally compressed channels that will let them offer many more PPV **movie** titles, as well as start times every half-hour.

HITS' widespread launch has been stymied...

...rolling out compression technology and other problems, including difficulties in negotiating deals with programmers.

But **Rich Fickle**, HITS' VP-business development/marketing, said that HITS will launch in October in Hartford, CT...

...will go online early next year.

Armed with 35 channels of PPV and a near- **video -on- demand** schedule, HITS could let TCI and other affiliates better compete with DirecTv's 55 channels...

...earn buy rates eight times higher than those of cable systems. DirecTv also prices PPV **movies** at \$2.95 -- about \$1 cheaper than cable -- and supports PPV with a lot of...

COMPANY NAMES: \*Request **Television** Inc.; Tele-Communications, Inc.

PRODUCT NAMES: \*4833001 (Pay **Television**)

19960524

9/3,K/56 (Item 30 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

04093728 Supplier Number: 45965484 (USE FORMAT 7 FOR FULLTEXT)

**HP's New Leasing Program Enables Cable Operators to Acquire KAYAK Digital**

**Set-Top Box for \$7 per Month.**

Business Wire, p11290043

Nov 29, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 604

... a leasing option for the cable industry," said Kay Monigold, chief administrative officer of Buford **Television**, Inc. (Tyler, Texas). "This leasing program provides a smaller operator like us with flexibility because...

...s HITS. HITS allows cable operators to receive digitally compressed programming and addressable services via **satellite** instead of incurring large costs for each headend.

"HP's leasing program simplifies the economics...

...to a monthly fee that corresponds to potential revenue from new, digitally enabled services," said **Richard C. Fickle**, TCI's HITS vice president of Marketing and New Business Development. "This program will complement...

...screen electronic program guides, such as TV Guide On-Screen, StarSight and Prevue Express; near- **video -on- demand** ; and play-along gaming with Zing interactive capabilities. KAYAK interfaces with General Instrument's state...

PRODUCT NAMES: \*3662256 (Cable **Television** Addressable Converters);  
7394366 (Communications Eqp Leasing & Rental); 4834000 (Cable  
**Television** Services)

NAICS CODES: 33422 (Radio and **Television** Broadcasting and Wireless  
Communications Equipment Manufacturing); 53249 (Other Commercial and  
Industrial Machinery and Equipment Rental...  
)

19951129

---

9/3,K/58 (Item 32 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

03641350 Supplier Number: 45136809 (USE FORMAT 7 FOR FULLTEXT)

**Getting Video Onto PC**

MEDIAWEEK, p24

Nov 14, 1994

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Academic

Word Count: 1125

... t see it quite that way. 'We believe in an inter -operable, open system,' says **Rich Fickle**, vp/marketing and business development at TCI's National Digital **Television** Center. 'We would encourage anyone with a better way to process the digital signals to...

...sales and marketing for Alpha Systems Lab, a San Diego-based developer of PC-based **multimedia** technologies whose MegaMotion video card uses JPEG compression for video conferencing. 'But so far they...

...do anything with that.'

Marc Colando, founder and president of Media3(interactive), an Atlanta-based **multimedia** content developer working in the interactive set-top prototyping market, has seen TrueMotion-S working...using chip-based compression and decompression technology for the first phase of its Orlando interactive **television** trial.

While the alternatives develop, though, Horizons itself sees only blue skies ahead. By the...

...one or two Horizons compression alliances with large distribution companies - most likely a telco or **MSO** - will be announced 'very, very soon.'

The ITV world can't wait.

19941114

---

9/3,K/59 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

26530371 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**PRIMEDIA to Provide Enthusiast Video Magazine Content in Comcast Video On-Demand Service in Philadelphia**

PR NEWswire (US)

December 11, 2002

JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 884

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**PRIMEDIA to Provide Enthusiast Video Magazine Content in Comcast Video On-Demand Service in Philadelphia**

... leading cable and broadband communications provider, to offer specialty magazine style programming for Comcast's video on demand (VOD) initiative in the Philadelphia area, Comcast's home market.

PRIMEDIA will provide Comcast subscribers with...

... database of enthusiasts and robust video resources. PRIMEDIA will promote and market the new branded VOD magazines to Comcast consumers through print publications, television shows, web sites and live events.

"The future of television is video on-demand," said Tom Rogers, Chairman and CEO of PRIMEDIA. "PRIMEDIA, through its hundreds of targeted magazines, vast Internet resources, live events and 14 existing cable and broadcast television programs, reaches millions of enthusiasts everyday. Our agreement with Comcast clearly demonstrates that our unique...

... in TV production for targeted audiences, will make a real contribution to the development of video on demand. We know from experience that enthusiasts want the ability to not only read about their...

... Internet and experience it in live events, but they also want to view them on television as well."

"PRIMEDIA also knows that by bringing out our base of endemic magazine advertisers, many for the first time into cable television, as we have with such current programs as Hot Rod TV, we will be able...

...creation.

"We are excited to be working with PRIMEDIA and Comcast on this venture," said Rich Fickle, Executive Vice President of Ascent Media's Emerging Media Services group. "VOD presents an enormous opportunity for specialty programmers to reach consumers in a unique way. Ascent...

... of traditional and new media properties. The company capitalizes on its focused content across print, television, the Internet and live events to offer highly effective integrated advertising and marketing solutions in ....

...other media company. It is also the #1 producer/distributor of specialty video with 18 satellite and digital video product lines, including Channel One Network; and the #1 news and information...

SIC CODES/DESCRIPTIONS: 2721 (Periodicals); 4841 (Cable & Other Pay Television Services); 2700 (Printing & Publishing); 4810 (Telephone Communications)  
20021211

---

9/3,K/61 (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

11392014 (USE FORMAT 7 OR 9 FOR FULLTEXT)

SUN MICROSYSTEMS: Sun Microsystems and AT&T Broadband to demonstrate  
Java-technology based interactive television at JavaOne Conference

M2 PRESSWIRE

June 07, 2000

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 799

(USE FORMAT 7 OR 9 FOR FULLTEXT)

SUN MICROSYSTEMS: Sun Microsystems and AT&T Broadband to demonstrate  
Java-technology based interactive television at JavaOne Conference

... Developer Conference -- Sun Microsystems and AT&T Broadband will showcase Java(tm) technology-based interactive **television** content at JavaOne, the world's largest software developers conference. This interactive **television** platform will be demonstrated on AT&T's advanced set-top boxes featuring interactive services...

... the past several years to develop a robust content environment for AT&T's interactive **television** services, planned for initial deployment late this year.

Compelling interactive **television** content is important to the success of interactive **television**, and Sun and AT&T, along with other partners, are developing such content using Java...

... including virtual shopping malls and games. Part of AT&T's Content Development Kit, interactive **television** content developed using Java technology offers security, extensibility, and portability across a diverse array of **television** receivers, saving content developers time and money deploying their interactive content to market.

With more...

... conference, Sun and AT&T will expand on their efforts to introduce the companies' interactive **television** plans and encourage the development of new and innovative interactive content. Sun recently participated in AT&T's Developer Day at the National Cable **Television** Show New Orleans, instructing developers in the creation and deployment of interactive **television** services developed in the Java programming language using a number of Java TV(tm) application...

... to provide AT&T with a Java technology foundation upon which to build its interactive **television** service," said George Paolini, vice president, Java Community Development, Sun Microsystems. "By deploying Java technology ...

... AT&T plans to include the powerful Java platform in all of our advanced interactive **television** set-top boxes," said Rich Fickle, senior vice president and program director of Interactive **Television** for AT&T Broadband. "By using Java technology, we are able to deliver engaging interactive...

... other partners, are committed to promoting and deploying an open platform for the emerging interactive **television** market. Both companies share a vision of the service-driven network, enabling the delivery of a feature-rich and cost-effective software platform for the interactive **television** industry. During the next several months, AT&T will work with Sun and other partners...

...based content with major content vendors.

#### About Java TV Technology

As the market for digital **television** grows, content developers are looking for a reliable software platform upon which to build the next generation of interactive **television** services such as Electronic Programming Guide, **Video -on- Demand** and Enhanced Broadcasting. The Java platform along with the Java TV API provides an ideal...

... Video Broadcasting (DVB) unanimously agreed to adopt Java technology as the foundation of the DVB **Multimedia** Home Platform (MHP) specification. This milestone for Java TV technology represents the continuous momentum for the Java platform in the interactive **television** space. The Digital **Television** Industrial Alliance of China is also working with Sun to incorporate Java technology into China...

... unit of AT&T, is one of the nation's largest broadband services companies, providing **television** entertainment services to more than 11 million customers across the nation. The company also provides...

20000607

9/3,K/63 (Item 1 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

(c) 2005 The Gale Group. All rts. reserv.

04236348 SUPPLIER NUMBER: 19216449

Roll out the boxes; digital boxes loom again on the cable horizon.

(includes related story on Wink Communications ITV technology) (Cable '97)

Tedesco, Richard

Broadcasting & Cable, v127, n11, p74(2)

March 17, 1997

ISSN: 1068-6827

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1701 LINE COUNT: 00134

ABSTRACT: Cable **television** companies and equipment suppliers are beginning to introduce digital set-top boxes and digital service...

... launch HITS with different operators in six systems by the end of March, according to **Richard Fickle**, HITS vice president of business development. The strategy calls for the introduction of HITS in...

...Systems Corp. and Time Warner Cable. A spokesperson for Time Warner says only that the **MSO** is planning one system test, with a fourth-quarter deployment for an undetermined number of...Orden's mind is the capability of S-A's boxes to eventually accommodate real **video on demand**. "That's going to be a very competitive weapon against DBS," which, he adds, can't accommodate **VOD**.

Most operators will pay as much as \$450 per box and get a box powered ...

...integrated in some TVs in Japan. Most recently, the company struck a deal with Sony **Television** for inclusion in a 32-inch model that Sony intends to ship domestically at the...

DESCRIPTORS: **Television** equipment industry...

...Cable **television** broadcasting industry...

...Digital **television** --

19970317

9/3,K/64 (Item 2 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2005 The Gale Group. All rts. reserv.

04200804 SUPPLIER NUMBER: 19131860

**Avoiding errors at HITS. ( Richard C. Fickle 's management of TCI  
Technology Ventures' Headend in the Sky)**

Colman, Price

Broadcasting & Cable, v127, n7, p68(1)

Feb 17, 1997

ISSN: 1068-6827

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 953

LINE COUNT: 00076

**Avoiding errors at HITS. ( Richard C. Fickle 's management of TCI  
Technology Ventures' Headend in the Sky)**

ABSTRACT: **Richard C. Fickle** is VP of marketing and new business development for TCI Technology Ventures. Fickle is in charge of Headend in the Sky (HITS), TCI's **satellite** that also functions as an uplink center and digitizing operation. HITS delivers TCI's ALL...

TEXT:

**Richar d C. Fickle** is getting accustomed to playing nanny for TCI Technology Ventures' Headend in the Sky, or...  
... as to be successful."

Despite its name, HITS is a good deal more than a **satellite** that beams digital bits to earth-based cable system headends. With its National Digital **Television** Center (NDTC) component, it's also a multimillion-dollar uplink center and digitizing operation that...

...an estimated \$450 a crack) and must buy some minimal headend equipment. Without HITS, each **MSO** would essentially be reinventing the wheel, providing uplink and digitizing operations, a move that all...

...a hard time affording.

"Mission one is to spread MPEG-2 content over the (HITS) **satellite**," says Fickle. "The second part is set-top management. (Digital) set-tops are complex. They...

...Jones Intercable from 1984 to 1988. During his tenure at the nation's largest cable **MSO**, he ran Netlink, the programing purveyor for Cband **satellites**, and was instrumental in the launch of Primestar by TCI. He also ran WestMarc's...

...That should set the stage for a multiplier effect in the second half of '97."

**Richard C. Fickle**

VP, marketing and business development, TCI Technology Ventures Inc.  
Headend in the Sky, Littleton, Colo...

DESCRIPTORS: **Satellite** communications services industry...

...Digital television --

NAMED PERSONS: **Fickle**, **Richard C...**

19970217

9/3,K/65 (Item 3 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.

(c) 2005 The Gale Group. All rts. reserv.

03505833      SUPPLIER NUMBER: 15862860  
**Getting video onto PC. (video compression)**  
Krantz, Michael  
MEDIAWEEK, v4, n44, p24(3)  
Nov 14, 1994  
ISSN: 1055-176X      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1144      LINE COUNT: 00101

TEXT:

...software solution to the industry quandary of getting computer video to look as good as **television** .  
... t see it quite that way. "We believe in an inter-operable, open system," says **Rich Fickle** , vp/marketing and business development at TCI's National Digital **Television** Center. "We would encourage anyone with a better way to process the digital signals to...

...sales and marketing for Alpha Systems Lab, a San Diego-based developer of PC-based **multimedia** technologies whose MegaMotion video card uses JPEG compression for video conferencing. "But so far they...

...do anything with that."

Marc Colando, founder and president of Media3(interactive), an Atlanta-based **multimedia** content developer working in the interactive set-top prototyping market, has seen TrueMotion-S working...using chip-based compression and decompression technology for the first phase of its Orlando interactive **television** trial.

While the alternatives develop, though, Horizons itself sees only blue skies ahead. By the...

...one or two Horizons compression alliances with large distribution companies - most likely a telco or **MSO** - will be announced "very, very soon."

The ITV world can't want.

19941114

---

9/3,K/66      (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

10858905      SUPPLIER NUMBER: 54026942      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**MASS MEDIA. (includes multiple briefs on various topics)**  
Communications Daily, 19, 43, NA  
March 5, 1999  
ISSN: 0277-0679      LANGUAGE: English      RECORD TYPE: Fulltext  
WORD COUNT: 1328      LINE COUNT: 00111

TEXT:

...measurement services around the world and to capitalizing on the opportunities created by new cable, **satellite** and Internet services," said Nicholas Trivisonno, chmn.-CEO of company (which isn't associated with ...

...s important to Academy "that America's young people are maintaining a positive relationship with **television** ... We take very seriously the effect **television** has on children." Conference includes panel of major TV programmers discussing their creative processes and...

...PPV), TVN, HBO, Showtime and Rainbow Networks to join "Kick Coalition" and package commercial-free **movies** as "virtual video store at home." Sie said Encore would let others use its "Kiss...tops, as well as rebates on HITS launch support and staff training. HITS Senior Vp **Rich Fickle** said deal "helps solve this economic challenge" of deploying digital cable to small operators. HITS is carried on more than 860 U.S. cable systems, primarily by TCI. Canadian **MSO** Shaw Communications chose General Instrument (GI) advanced digital set-tops for its rollout of digital...

...DESCRIPTORS: Cable **television** broadcasting industry...

...PRODUCT/INDUSTRY NAMES: 4834000 (Cable **Television** Services...  
19990305

---

9/3,K/68 (Item 3 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

09832368 SUPPLIER NUMBER: 17966440 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**TVN will compete with TCI's HITS. (TVN Entertainment L.P.;**

**Tele-Communications Inc.; headend-in-the sky)**

Haugsted, Linda; Ellis, Leslie

Multichannel News, v16, n48, p2(2)

Nov 27, 1995

ISSN: 0276-8593

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 684

LINE COUNT: 00057

TEXT:

Los Angeles -- TVN Entertainment Corp., a near- **video on-demand** pay-per-view provider to the backyard **satellite** dish market, said last week it will launch a competitive digital programming service for cable...  
... president of engineering for Rifkin & Associates.

Initially, TVN will program over 40 channels of PPV **movies**, said Stu Levin, president and CEO of TVN, at a Nov. 20 press conference.  
Following...

...said. TVN currently operates from 11 C-band transponders on AT&T's T-303 **satellite** and two on Telstar 402R, and it will add nine C-band transponders on Galaxy...

...t announced plans to make digital set-tops for domestic use.

That fact alone has **MSO** and vendor engineers scratching their heads.

"Anybody can build an empty box -- we've seen...

...except to explain that the set-top's features include the ability to "pause" a **satellite** -delivered **movie** and a slide-in card for commerce and authorization functions.

"Most of us have our...

...nailed for '96, and I know ours doesn't include TVN or Grundig," said one **MSO** engineer, speaking on background.

Levin would also not discuss the cost of the box, saying only that the hardware would cost "substantially less" than the cheapest Digital **Satellite** System hardware (\$700). Details on box price, marketing and financing will be delivered at the...

...done something very breakthrough, I don't see how they can pull this off," said **Richard Fickle**, vice president of business development for



TCI's HITS project. "The carriage of digital signals...

...not an easy thing to do -- it's a lot more complex than the straight **satellite** delivery" that TVN offers now.

But Levin said last week that operators will need "no alterations" at their headends to receive TVN's 40-channel **movie** offering.

TVN is targeting smaller operators, said Levin, who expects larger MSOs to go with...

...put 750 (megahertz) plant in the markets we serve," said Ron Martin, COO of Buford **Television** Inc., who added that **satellite** digital delivery is the only way to compete with direct-broadcast **satellite**.

Analysts' reactions were mixed. Michael Alpert, president of Alpert and Associates, said the TVN plan...

DESCRIPTORS: Direct broadcast **satellite** **television** --...

...Pay-per-view **television** --

PRODUCT/INDUSTRY NAMES: 4833300 (Direct Broadcast **Satellite** **Television** Services)  
19951127

---

9/3,K/69 (Item 4 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

08341607 SUPPLIER NUMBER: 17879642 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Interactive TV: HP's new leasing program enables cable operators to acquire Kayak digital set-top box for \$7 per month. (Company Business and Marketing)**

EDGE, on & about AT&T, v10, n385, p4(1)

Dec 4, 1995

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 539 LINE COUNT: 00051

... a leasing option for the cable industry," said Kay Monigold, chief administrative officer of Buford **Television**, Inc. (Tyler, Texas). "This leasing program provides a smaller operator like us with flexibility because...

...s HITS. HITS allows cable operators to receive digitally compressed programming and addressable services via **satellite** instead of incurring large costs for each headend.

"HP's leasing program simplifies the economics...

...to a monthly fee that corresponds to potential revenue from new, digitally enabled services," said **Richard C. Fickle**, TCI's HITS vice president of Marketing and New Business Development. "This program will complement...

...screen electronic program guides, such as TV Guide On-Screen, StarSight and Prevue Express; near- **video** -on- **demand**; and play-along gaming with Zing interactive capabilities. KAYAK interfaces with General Instrument's state...

...DESCRIPTORS: Cable **television** --  
19951204

9/3,K/72 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

05495610 SUPPLIER NUMBER: 11440656 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Piracy threatens satellite industry's growth. ( television receiver only  
market uses descrambler systems to safeguard against signal piracy)**  
Hogan, Monica  
Dealerscope Merchandising, v33, n9, p31(5)  
Sept, 1991  
ISSN: 0888-4501 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2319 LINE COUNT: 00186

**Piracy threatens satellite industry's growth. ( television receiver only  
market uses descrambler systems to safeguard against signal piracy)**

TEXT:

Piracy Threatens **Satellite** Industry's Growth  
... media rooms--savvy audio/video specialists should consider a  
related--but often overlooked--product category, **satellite television**  
receive only (TVRO) systems.

Chuck Hewitt, president of the **Satellite** Broadcasting and  
Communications Association (SBCA), called C-band **satellite** TV the best  
entertainment value around, offering digital audio and the best live video  
system available to consumers. Hewitt went as far as to say that "home  
theater without **satellite** TV is like a Corvette with a Volkswagen  
engine."

Local **satellite** dealers across the country have virtually cornered  
the TVRO market for the past ten years, building an installed base of 3.4  
million **satellite** systems. The same consumers who have invested in TVRO  
equipment are also prime candidates for other home theater products.  
Increasingly, audio/video vendors and **satellite** dealers are discussing  
ways to incorporate new A/V products into the **satellite** showroom.

"It's often hard for consumers to understand the concept of a \$2,000  
...

...Walczak, national sales manager of Toshiba. "But once they've spent  
\$3,000 for a **satellite** system and seen the picture quality and  
programming, they're not as likely to balk at the price of a more expensive  
TV or VCR."

Because **satellite** is such a lucrative business for its dealers,  
Walczak said he has seen increased interest...

...prosper in this industry are the small, local dealers who understand  
service. According to Walczak, **satellite** sales presentations must be  
tailored around such things as the region's income level, the cost of local  
cable services and even the size of the **satellite** antenna needed.  
Therefore, chain stores that use a cookie cutter approach to merchandising  
will find...

...show held recently in Nashville, Tony Cox, chairman and CEO of Showtime  
Networks, Inc., told **satellite** dealers that the stalled growth the  
industry faces is due not to market saturation, but...

...deal in illegal decoders," Cox said, quoting SBCA estimates that up to  
80 percent of **satellite** dealers sell unlicensed decoders.

Piracy presents a problem to legitimate dealers who can't compete...

...programming that pirate dealers offer their customers. And piracy

threatens the entire industry because Hollywood **movie** houses are reluctant to supply programming that ends up unpaid for. Jack Valenti, president of...

...did allow programmers to collect payment for their premium channels, it did not save the **satellite** industry from itself. Pirates worked overtime to obtain the scrambled signals, and consumers who had purchased dishes prior to scrambling, when all **satellite** programming was free, felt that they had been sold a bill of goods. The TVRO...

...which meant more money out of the consumer's pocket and more trips to the **satellite** dealer. And while new descramblers won new IRD (integrated receiver/descrambler) sales opportunities for receiver manufacturers and **satellite** dealers, the industry lost out on new system sales due to eroding consumer confidence that...

...General Instrument, which created the VideoCipher encryption technology used by most programmers who scrambled their **satellite** signals, has introduced a renewable security program called VideoCipher RS.

In December, General Instrument will...

...General Instrument's VideoCipher Division, the new VideoCipher RS modules will be shipped to licensed **satellite** receiver manufacturers for incorporation in their new IRDs, but will not be shipped directly to...Plus because that's all we broadcast," said Stu Levin, who founded pay-per-view **movie** supplier TVN. "We support any upgrade programs. We'd sure like to figure out how...

...others express doubts. "What do you do with customers who claim to be defrauded?" asked **Rick Fickle**, executive VP of programming packager Netlink. "I'm very concerned that the module price will become a barrier to **satellite** buyers."

At VideoCipher RS seminars at the SBCA Show, General Instrument's Gudorf assured **satellite** dealers that consumers who purchased VideoCipher II Plus modules prior to April will not be...

...to build a consumer PR campaign that will educate consumers on the dollar value of **satellite** TV, said Hewitt.

The **satellite** industry will get a promotional shot in the arm as manufacturers and programmers begin advertising...

...from the industry have been that SkyPix will launch early next year.

Toshiba's national **multimedia** ad campaign is scheduled to kick off this month. "One of the things manufacturers don...

...is help sell product," said Walczak. "That's a problem in the industry."

Toshiba's **television** ads will be product and sales oriented, said Walczak, and will support local dealers who sell Toshiba **satellite** TV. "I don't think we've created the greatest ad campaign since [Alka Seltzer...

...think it's a start."

Programmers, too, can greatly influence the public's awareness of **satellite** TV. HBO, for example, spends over \$50 million a year advertising its **movies** and special events, according to Vinton Bauer, VP, HBO **Satellite** Services. And NBC will spend \$40 million to advertise its Olympics programming, which includes 24-hour-a-day, three-channel "Triple Cast" coverage that will be offered to **satellite** dish owners via Netlink pay-per-view.

Hewitt said he'd like to encourage programmers to help legitimize the **satellite** TV industry by promoting the availability of their packages to **satellite** viewers and not just to cable subscribers. Indeed, when a

splashy **television** ad for the Olympics Triple Cast coverage was unveiled at the SBCA Show, no mention at all was made of **satellite** customers in the voice-over, but only of cable subscribers.

Despite its relatively small customer base compared to cable viewers, **satellite** dish owners appeal to programmers for their easy accessibility, since they do not have local...

...companies as a gatekeeper. And because it doesn't require FCC approval the way broadcast **television** does, **satellite** is likely to be one of the first means of delivery for HDTV programming.

Thus, the **satellite** industry appears poised for further growth. But, said Showtime's Cox, "the question is whether...

...group will come along to create a better industry."

That will largely be determined by **satellite** dealers and their suppliers. Legitimate dealers who work within the law and attempt to grow ...promote their home theater lines and to work out ways to distribute their products to **satellite** dealers, who don't often have the buying capital of consumer electronics superstores. "The reason...

...theater seminar at the SBCA Show. "They sell piece by piece."

More than ever, successful **satellite** retailing in the '90s will entail cooperation between many interested parties: dealers, **satellite** equipment suppliers, home theater manufacturers, **movie** houses and programming packagers. And while compromises will most likely need to be made among...

...the consumer. Said Cox, "If we alienate him again, we'll lose him forever."

PHOTO : **Satellite** dishes lined the parking lot of Nashville's Opryland Hotel at the SBCA Show.

PHOTO : Toshiba's Chris Walczak brought the company's **satellite** receiver line to both the CES and SBCA Shows this summer.

PHOTO : Greg Gudorf of General Instrument's VideoCipher Division showed **satellite** dealers the new VideoCipher RS modules with openings for consumer-replaceable CipherCards.

PHOTO : SBCA's...

DESCRIPTORS: Direct broadcast **satellite** television --...

...Subscription **television** piracy...

... **Television** equipment and supplies industry  
19910900

---

9/3,K/76 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2005 Business Wire. All rts. reserv.

00690272 20020403093B9582 (USE FORMAT 7 FOR FULLTEXT)  
**Subscription-Based Video -On- Demand Generating 10 Times The Usage Of  
Traditional Pay-Per-View Offerings; Top Execs to Gather at Kagan VOD  
Summit to Debate Revolutionary Industry Changes**

Business Wire

Wednesday, April 3, 2002 11:59 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 782

**Subscription-Based Video -On- Demand Generating 10 Times The Usage Of  
Traditional Pay-Per-View Offerings; Top Execs to Gather at Kagan VOD  
Summit to Debate Revolutionary Industry Changes  
2002**

**TEXT:**

The upcoming Kagan VOD ( Video  
on Demand ) Summit; April 17-18 at the Helmsley Park Lane Hotel in New  
York  
City, will...  
...decode the economic models which  
underpin them.

Foremost on the agenda will be Subscription-based Video -On- Demand  
(SVOD).

SVOD has become one of the hottest new programming concepts in television  
and  
is generating in excess of 10 times the usage of traditional pay-per-view  
...

...are being launched.

In general, on-demand delivery of audio and video--whether by cable,  
**satellite**  
or broadband connection--is at the core of the most fundamental revolution  
in  
the history of entertainment and information programming. A host of  
services,  
ranging from SVOD to movie downloads to hard disk drives imbedded into  
home  
servers and digital set top boxes (popularly...  
...the way viewers interact with commercials to  
program length to prime time scheduling.

The KAGAN VIDEO ON DEMAND SUMMIT will review all aspects of the present  
VOD  
business climate, analyze emerging trends in the industry and investigate  
the  
new strategic relationships being...

...analyst and moderator, Larry Gerbrandt,  
panelists representing the top companies on the cutting-edge of VOD  
technological and market innovation will offer their analysis and outlook  
for  
the sector in 2002 and beyond.

For more VOD Summit information, call (831) 624-1536 and ask for the  
Conference Registrar; go to info...

...17

Keynote Address: Josh Sapan, President and CEO, Rainbow Media  
Holdings, Inc.

Panel One: SUBSCRIPTION VOD : Show Me the Money!

- Michael J. Pohl, President & CEO, nCUBE Corporation
- Matt Strauss, General Manager, Mag Rack
- Sherry Brennan, Vice President - PPV and VOD , Cablevision  
Systems
- Greg DePrez, Vice President - Subscription VOD , Starz Encore  
Group

- George Breen, President, Digital Video Arts  
Keynote Address: Jonathan Taplin, President and...

...President -

Corporate Strategy and Communications, Showtime Networks

Panel Three: WALL STREET ROUNDTABLE: How to Value VOD 's Upside

- David Lee Smith, Principal and Media Analyst, Dain Rauscher Wessels
- Jordan Rohan, Managing...

...Senior Vice President, State Street Research

Panel Four: A LA CARTE TV: Opportunities for Non- Movie

Content-On-Demand

- Bethany Gorfine, President, Federal Hill Communications
  - Manish Jha, Vice President - Broadband & Interactive...
  - ...Ed Sharp, Director - Content Delivery, Network Appliance
  - Mike Taylor, Vice President Business Development, BigBand Networks
  - Jose Royo , Vice President New Products, Liberty Livewire
  - Raj Amin, Senior Director Business Development, N2 Broadband
- Panel...

...Inc.

- Scott Sander, President and CEO, SightSound Technologies
- Panel Three: INTERACTIVE ADVERTISING AND T-COMMERCE: VOD 's "Other" Revenue Streams
- Kevin M. Liga, CTO, ACTV
- Arthur Orduna, Vice President Marketing, Canal...

---

9/3,K/77 (Item 2 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2005 Business Wire. All rts. reserv.

00534196 20010607158B4486 (USE FORMAT 7 FOR FULLTEXT)  
**TVGateway Signs Multi-Year Distribution Agreement and Completes Integration With AT&T'S Headend In The Sky-Arrangement Will Significantly Increase Availability of New IPG to Digital Cable Subscribers**  
Business Wire  
Thursday, June 7, 2001 08:31 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 847

2001

...a package of digitally compressed video and audio services to cable operators using a sophisticated **satellite** distribution network. The addition of TVGateway's IPG to HITS' offerings greatly increases the availability of the guide to millions of potential households.

The HITS platform serves more than 200 **multiple system operators** , reaching 2000 cable headends throughout the United States.  
"Our goal is to provide our cable...

...Adding TVGateway gives our customers the flexibility to choose the applications for their customers,"  
said **Rich Fickle** , AT&T Broadband's senior vice president of HITS. "By

combining TVGateway's guide with...

...AT&T's Headend in the Sky

HITS, founded in 1994, delivers digitally-compressed cable **television** programming signals to cable operators around the United States. HITS currently compresses more than 150...

...is an interactive TV platform provider offering a wide range of interactive solutions to cable **television** operators, including interactive program guides, open standards software and WorldGate's patented Channel HyperLinking(SM...

---

9/3,K/78 (Item 1 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2005 PR Newswire Association Inc. All rts. reserv.

00905092 20021211NYW039 (USE FORMAT 7 FOR FULLTEXT)  
**PRIMEDIA to Provide Enthusiast Video Magazine Content**  
PR Newswire  
Wednesday, December 11, 2002 08:09 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 916

LATE

2002

TEXT:

...leading cable and broadband communications provider, to offer specialty magazine style programming for Comcast's **video on demand** ( **VOD** )

initiative in the Philadelphia area, Comcast's home market.

PRIMEDIA will provide Comcast subscribers with...

...database of enthusiasts and robust video resources. PRIMEDIA will promote and market the new branded **VOD** magazines to Comcast consumers through print publications, **television** shows, web sites and live events.

"The future of **television** is **video on-demand**," said Tom Rogers, Chairman and CEO of PRIMEDIA. "PRIMEDIA, through its hundreds of targeted magazines, vast Internet resources, live events and 14 existing cable and broadcast **television** programs, reaches millions of enthusiasts everyday. Our agreement with Comcast clearly demonstrates that our unique...

...in TV production for targeted audiences, will make a real contribution to the development of **video on demand**. We know from experience that enthusiasts want the ability to not only read about their...

...Internet and experience it in live events, but they also want to view them on **television** as well."

"PRIMEDIA also knows that by bringing out our base of endemic magazine advertisers, many for the first time into cable **television** , as we have with such current programs as Hot Rod TV, we will be able...

...creation.

"We are excited to be working with PRIMEDIA and Comcast on this venture," said **Rich Fickle** , Executive Vice President of Ascent Media's Emerging Media Services group. " **VOD** presents an enormous opportunity for specialty programmers to reach consumers in a unique way. Ascent...

...of traditional and new media properties. The company capitalizes on its focused content across print, **television** , the Internet and live events to offer highly effective integrated advertising and marketing solutions in...

...other media company. It is also the #1 producer/distributor of specialty video with 18 **satellite** and digital video product lines, including Channel One Network; and the #1 news and information...

---

9/3,K/79 (Item 1 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2005 McGraw-Hill Co. Inc. All rts. reserv.

01156503

**TV Guy: Henry Yuen of Gemstar-TV Guide wants to take control of your television**

By Ronald Grover in Pasadena, Tom Lowry in New York, and Larry Armstrong in Los Angeles

Business Week, No. 3723, Pg 66  
March 12, 2001  
JOURNAL CODE: BW  
SECTION HEADING: Cover Story ISSN: 0007-7135  
WORD COUNT: 3,576

: **Henry Yuen of Gemstar-TV Guide wants to take control of your television**

TEXT:

...is being hustled to the elbow of a pampered star. As for the full-size **movie** posters that adorn most moguls' offices, forget it. Scores of wood-framed plaques that could...

... Yuen, a onetime math professor who believes he holds the keys to the future of **television** . The plaques are patents for the technology Yuen says will be needed in the next...

... more viewers will be clicking to sort shows by category, record the news, buy a **movie** , or get on the Internet. Right now, to do just about anything from an interactive...

... will be a \$40 billion market, generating revnues on everything from advertising to subscriptions to **video -on- demand** , calculates ING Barings analyst Spencer Wang. With its ``first-screen'' strategy, Gemstar



``controls the most...

... has made the company a key element in his own plans to create a worldwide **satellite** network. Yuen ``is a brilliant strategist," says Murdoch. ``And (he) has shown to have a...

... more than 10 million homes. ``We think he may just be the smartest guy in **television** ," says Robert R. ``Dob" Bennett, president of Malone's Liberty Media Corp. and a Gemstar...give them some leverage in talks with Gemstar in the meantime. Certain opponents, such as **satellite** service EchoStar Communications Corp. and set-top maker Scientific-Atlanta Inc., are countersuing, claiming Gemstar...

...negotiations.

The problem is that Yuen is upsetting the existing order in which cable and **satellite** operators have been able to offer viewers all sorts of choices. That's why most...

... with Walden VC who has worked with cable operators and interactive-TV companies. Cable and **satellite** companies ``like to have two of everything so that one guy can't hold them...which he is at best a casual user. The Gemstar CEO tunes in his DirecTV **satellite** dish to take in the Fox sci-fi drama The X-Files or an occasional...

... nearly \$10 billion. ``He worked us over pretty well," recalls Gemstar board member and Thomson **Multimedia** Executive Vice-President James E. Meyer. Then Yuen turned the tables and sued TV Guide...to match those projections. The recent deal with Charter aside, the mistrust among cable and **satellite** operators runs deep. EchoStar, which last year countersued Gemstar, claims in court papers that Yuen...

...subscribers away from Gemstar's interactive guide to its own page, where viewers can buy **movies** , conduct e-commerce, and send e-mail messages. ``We see this as a very robust business for us, too," says AT&T Senior Vice-President **Richard Fickle** , who heads the cable operator's interactive-TV business. ``We have our own portal.''

It...

... has what Yuen believes is an ace up his sleeve: the TV-set makers. Thomson **Multimedia** is selling more than 3 million sets a year with the guide built in, under...

...box).

If it all works, Henry Yuen could have the makings of his own virtual **television** network--a virtual empire for a virtual media executive. Sitting in his downscale office, Henry...

TABLE:

... Gemstar-TV Guide's programming guide on every receiver linked to his global network of **satellites** .

MICROSOFT

Has licensing agreements with Microsoft for its WebTV and Ultimate TV set-top boxes...

...box in deal with Gemstar for its guide.

DIRECTV

Set-top makers used by the **satellite** service pay \$10 a piece for each of

the 9 million boxes used by DirectTV...

...TIVO

It has countersued Gemstar, alleging antitrust violations and to invalidate Gemstar patents.

ECHOSTAR

The **satellite** service is countersuing Gemstar after it sued for patent infringement. Echostar has also alleged state...

...COMPANY NAMES: Atlanta Inc ; Showtime ; Sky Global Network Inc ; Sony ; Spencer Wang ; StarSight ; New York Times ; Thomson **Multimedia** Executive ; Time Warner Cable ; Tribune Co ; TRW Inc ; TV Guide Inc ; U S Congress ; United...

2001

---

9/3,K/80 (Item 2 from file: 624)

DIALOG(R)File 624:McGraw-Hill Publications

(c) 2005 McGraw-Hill Co. Inc. All rts. reserv.

01087544

**TURN ON, TUNE IN, INTERACT: America Online thinks it can do a better job of Web-via-TV than its rivals. It may be right**

By Catherine Yang in Washington

Business Week, Number 3683, Pg 90

May 29, 2000

JOURNAL CODE: BW

SECTION HEADING: Information Technology: THE INTERNET ISSN: 0007-7135

WORD COUNT: 1,738

TEXT:

The whole idea of interactive **television** got a bad rap in the past decade. In the mid-1990s, Time Warner Inc. poured millions into trying to deliver **movies** on demand in Orlando, Fla., but the technology proved too expensive. Cable giant Tele-Communications...

... and Bell Atlantic Corp. announced plans to merge in 1993 to combine the promise of **television**, telecommunications, and computers--and the deal collapsed. Even Microsoft Corp. has stumbled in its efforts...

...bravery, if nothing else. With huge fanfare, the media giant will launch its own interactive **television** service, called AOLTV, in early June. Using a new digital set-top box, AOL will...

... while watching her eponymous TV show. ``This is the beginning of a fundamental change in **television**,'' says Barry M. Schuler, AOL's president of Interactive Services Group.

Why is AOL trying...

... System Inc. Ultimately, Time Warner's broadband cable pipes could distribute music, software, or even **movies** to customers around the country.

Despite AOL's grand vision, skeptics abound. Many experts think...

...any prior interactive-TV services,'' says Blodget.

AOL is hardly the only company championing interactive **television**

these days. Innovative cable players such as AT&T, Cox, and Comcast plan to roll...

... aggressive introduction of a new interactive-TV service in test markets later this year. And **satellite** -TV rival EchoStar Communications Corp. teamed up with WebTV last June to offer **satellite** TV with Net features. ``The day of the Internet and TV is not tomorrow--it...

... works with any TV, whether the picture comes from over-the-air broadcast, cable, or **satellite** . Consumers will be able to buy the set-... the next year. By fall, it plans to launch a souped-up version of interactive **television** that will deliver both AOLTV and programming from **satellite** partner DirecTV. As early as next year, AOL may have a simpler and less expensive...

...out and record hours of TV shows, call up their own instant replays, and pause **television** shows while they are being broadcast.

BURNING RUBBER. Rivals aren't ceding AOL any ground...

... the cable business pay off. ``This will be more than just a niche business,' ' says **Rich Fickle** , senior vice-president of AT&T Broadband. ``It's going to be a big growth...

...wasn't going to launch I-TV until 2002 or 2003, preferring to focus on **video** -on- **demand** . But, says Time Warner Cable President Glenn Britt, ``because of the merger, we may accelerate...

...electronic programming guide, and some interactive content, says Britt.

The race to transform America's **televisions** is just beginning, and the competitors are barely out of the gate. Still, AOL is...

#### TABLE:

You've Got Interactive TV

America Online soon will offer customers several services that combine **television** and the Internet. Here's how:

AOL'S SET-TOP BOX Starting in early June...

... AOL debuts a new set-top box that will deliver AOLTV along with DirecTV's **satellite television** service. The box, made by DirecTV affiliate Hughes Network Systems, will not work with TV...

... The exclusive deal will help AOL target DirecTV's 8.5 million subscribers with interactive **television** .

AOL AND TIVO AOL is working on a set-top box that will combine AOLTV...

... to TiVo's digital storage drive, the box will let AOLTV viewers record hours of **television** , search out and record specific types of programming, and pause TV shows as they're...

... s a rundown of how America Online stacks up against its major competitors in interactive **television** :

AT&T

The phone giant is AOL's most potent rival in interactive TV. After...

2000

9/3,K/81 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

2189942 78532160

**AT&T division joins in TV deal Interactive services to be developed**

Vuong, Andy

Denver Post pC.01

Aug 23, 2001

WORD COUNT: 427

DATELINE: Littleton Colorado

TEXT:

...can play 'Who Wants to be a Millionaire.'

Upgrades planned

Hits delivers digitally compressed cable- **television** programming signals to 140 cable operators in the United States.

Liberate, of San Carlos, Calif...

...offer future upgrades that will allow cable operators to add two-way services such as **video** on **demand**, interactive advertising and e-commerce.

'Our affiliates can immediately provide their customers compelling new applications without having to invest in costly server infrastructures or set-top upgrades,' said **Rich Fickle**, senior vice president of Hits.

'Liberate's open architecture gives us the flexibility to add...

...DESCRIPTORS: Interactive **television**

---

9/3,K/82 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

04681592 Supplier Number: 62555535 (USE FORMAT 7 FOR FULLTEXT)

**Sun Microsystems and AT&T Broadband to demonstrate Java-technology based interactive television at JavaOne Conference.**

M2 Presswire, pNA

June 7, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 861

(USE FORMAT 7 FOR FULLTEXT)

**Sun Microsystems and AT&T Broadband to demonstrate Java-technology based interactive television at JavaOne Conference.**

TEXT:

...2000-SUN MICROSYSTEMS: Sun Microsystems and AT&T Broadband to demonstrate Java-technology based interactive **television** at JavaOne Conference (C)1994-2000 M2 COMMUNICATIONS LTD

... Developer Conference -- Sun Microsystems and AT&T Broadband will showcase Java(tm) technology-based interactive **television** content at JavaOne, the world's largest software developers conference. This interactive **television** platform will be demonstrated on AT&T's advanced set-top boxes featuring interactive services...

...the past several years to develop a robust content environment for

AT&T's interactive **television** services, planned for initial deployment late this year.

Compelling interactive **television** content is important to the success of interactive **television**, and Sun and AT&T, along with other partners, are developing such content using Java...

...including virtual shopping malls and games. Part of AT&T's Content Development Kit, interactive **television** content developed using Java technology offers security, extensibility, and portability across a diverse array of **television** receivers, saving content developers time and money deploying their interactive content to market.

With more...conference, Sun and AT&T will expand on their efforts to introduce the companies' interactive **television** plans and encourage the development of new and innovative interactive content. Sun recently participated in AT&T's Developer Day at the National Cable **Television** Show New Orleans, instructing developers in the creation and deployment of interactive **television** services developed in the Java programming language using a number of Java TV(tm) application upon which to build its interactive **television** service," said George Paolini, vice president, Java Community Development, Sun Microsystems. "By deploying Java technology

...AT&T plans to include the powerful Java platform in all of our advanced interactive **television** set-top boxes," said Rich Fickle, senior vice president and program director of Interactive **Television** for AT&T Broadband. "By using Java technology, we are able to deliver engaging interactive...other partners, are committed to promoting and deploying an open platform for the emerging interactive **television** market. Both companies share a vision of the service-driven network, enabling the delivery of a feature-rich and cost-effective software platform for the interactive **television** industry. During the next several months, AT&T will work with Sun and other partners Java TV Technology

As the market for digital **television** grows, content developers are looking for a reliable software platform upon which to build the next generation of interactive **television** services such as Electronic Programming Guide, **Video -on- Demand** and Enhanced Broadcasting. The Java platform along with the Java TV API provides an ideal...

...Video Broadcasting (DVB) unanimously agreed to adopt Java technology as the foundation of the DVB **Multimedia** Home Platform (MHP) specification. This milestone for Java TV technology represents the continuous momentum for the Java platform in the interactive **television** space. The Digital **Television** Industrial Alliance of China is also working with Sun to incorporate Java technology into China...

...unit of AT&T, is one of the nation's largest broadband services companies, providing **television** entertainment services to more than 11 million customers across the nation. The company also provides...

20000607

---

9/3,K/83 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0112435 BW626

WESTMARC COMMUN: WestMarc Communications acquisition completed

January 4, 1989

Byline: Business Editors

WestMarc Communications Inc. (WSMC), a  
Denver-based cable **television** **MSO** , Wednesday announced the completion  
of its acquisition of Taft Cable Partners.

With the addition of...

...the past year.

At the same time Larry Romrell, president of WestMarc, also  
announced that **Richard C. Fickle** , currently vice president of corporate  
development, will also assume the responsibility of vice president of...